

# WEST Search History

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DATE: Tuesday, April 04, 2006

<u>Hide?</u>	<u>Set</u>	<u>Name</u>	<u>Query</u>	<u>Hit Count</u>
			<i>DB=PGPB,USPT,JPAB,DWPI; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L7	L3 or l5		160
<input type="checkbox"/>	L6	l5 or l3L5		92
<input type="checkbox"/>	L5	l4 and dr5		71
			<i>DB=DWPI,JPAB,USPT,PGPB; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L4	("NI-JIAN".IN.   "NI-JAIN".IN.)!		404
			<i>DB=PGPB,USPT,JPAB,DWPI; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L3	L2 and (l1.ab. or l1.ti.)		96
<input type="checkbox"/>	L2	L1 adj12 ((death domain) or apoptosis)		439
<input type="checkbox"/>	L1	DR5 or Apo-2 or TRAIL-R or (death receptor-5) or TRAIL-R2 or TRAILR2 or TRAIL-2 or TRAIL2 or Trick2 or Killer or Tango63e or TR6		24103

END OF SEARCH HISTORY

# Hit List

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## Search Results - Record(s) 1 through 160 of 160 returned.

### 1. Document ID: US 20060035334 A1

L7: Entry 1 of 160

File: PGPB

Feb 16, 2006

PGPUB-DOCUMENT-NUMBER: 20060035334

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060035334 A1

TITLE: Apo-2 receptor

PUBLICATION-DATE: February 16, 2006

#### INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Adams; Camellia W.	Mountain View	CA	US
Ashkenazi; Avi J.	San Mateo	CA	US
Chuntharapai; Anan	Colma	CA	US
Kim; Kyung Jin	Los Altos	CA	US

US-CL-CURRENT: 435/69.1; 435/252.33, 435/320.1, 435/358, 530/350, 536/23.5

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KIMC](#) [Drawn Desc](#) [Image](#)

### 2. Document ID: US 20060020114 A1

L7: Entry 2 of 160

File: PGPB

Jan 26, 2006

PGPUB-DOCUMENT-NUMBER: 20060020114

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060020114 A1

TITLE: Apo-2DcR

PUBLICATION-DATE: January 26, 2006

#### INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Ashkenazi; Avi J.	San Mateo	CA	US
Baker; Kevin P.	San Mateo	CA	US
Gurney; Austin	Belmont	CA	US
Wood; William I.	San Mateo	CA	US

US-CL-CURRENT: 530/350; 435/320.1, 435/325, 435/6, 435/69.1, 536/23.5

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KIMC](#) [Drawn Desc](#) [Image](#)

### 3. Document ID: US 20060009387 A1

PGPUB-DOCUMENT-NUMBER: 20060009387  
 PGPUB-FILING-TYPE:  
 DOCUMENT-IDENTIFIER: US 20060009387 A1

TITLE: Apo-2 ligand/trail formulations

PUBLICATION-DATE: January 12, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Flores; Heather	Hayward	CA	US
Lin; Tanya P.	Bronx	NY	US
Matthews; Timothy C.	Millbrae	CA	US
Pai; Roger	Los Altos	CA	US
Shahrokh; Zahra	Weston	MA	US

US-CL-CURRENT: 514/12

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Draw Desc](#) | [Image](#)

4. Document ID: US 20050287635 A1

L7: Entry 4 of 160

File: PGPB

Dec 29, 2005

PGPUB-DOCUMENT-NUMBER: 20050287635  
 PGPUB-FILING-TYPE: new  
 DOCUMENT-IDENTIFIER: US 20050287635 A1

TITLE: RTD receptor

PUBLICATION-DATE: December 29, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Ashkenazl, Avi J.	San Mateo	CA	US
Gurney, Austin	Belmont	CA	US

US-CL-CURRENT: 435/69.1; 435/320.1, 435/325, 530/350, 530/388.22, 536/23.5

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Draw Desc](#) | [Image](#)

5. Document ID: US 20050282230 A1

L7: Entry 5 of 160

File: PGPB

Dec 22, 2005

PGPUB-DOCUMENT-NUMBER: 20050282230  
 PGPUB-FILING-TYPE: new  
 DOCUMENT-IDENTIFIER: US 20050282230 A1

TITLE: Method for making monoclonal antibodies and cross-reactive antibodies obtainable by the method

PUBLICATION-DATE: December 22, 2005

**INVENTOR-INFORMATION:**

NAME	CITY	STATE	COUNTRY
Ashkenazi, Avi J.	San Mateo	CA	US
Chuntharapai, Anan	Colma	CA	US
Kim, K. Jin	Los Altos	CA	US

US-CL-CURRENT: 435/7.1; 435/320.1, 435/334, 435/69.1, 530/388.22, 536/23.53

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">KOMC</a>	<a href="#">Draw Desc</a>	<a href="#">Image</a>
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 6. Document ID: US 20050282217 A1

L7: Entry 6 of 160

File: PGPB

Dec 22, 2005

PGPUB-DOCUMENT-NUMBER: 20050282217

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050282217 A1

TITLE: Human tumor necrosis factor receptor TR10

PUBLICATION-DATE: December 22, 2005

**INVENTOR-INFORMATION:**

NAME	CITY	STATE	COUNTRY
<u>Ni, Jian</u>	Germantown	MD	US
Rosen, Craig A.	Laytonsville	MD	US

US-CL-CURRENT: 435/6; 435/320.1, 435/325, 435/69.1, 530/350, 536/23.5

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">KOMC</a>	<a href="#">Draw Desc</a>	<a href="#">Image</a>
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 7. Document ID: US 20050255100 A1

L7: Entry 7 of 160

File: PGPB

Nov 17, 2005

PGPUB-DOCUMENT-NUMBER: 20050255100

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050255100 A1

TITLE: Antibodies to tumor necrosis factor receptor 5

PUBLICATION-DATE: November 17, 2005

**INVENTOR-INFORMATION:**

NAME	CITY	STATE	COUNTRY
Wei, Ying-Fei	Berkeley	CA	US
<u>Ni, Jian</u>	Germantown	MD	US
Gentz, Reiner L.	Belo Horizonte - Mg	MD	BR
Ruben, Steven M.	Brookville		US

US-CL-CURRENT: 424/141.1; 424/145.1, 514/109, 514/11, 514/171, 514/263.31

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">KOMC</a>	<a href="#">Draw Desc</a>	<a href="#">Image</a>
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8. Document ID: US 20050249729 A1

L7: Entry 8 of 160

File: PGPB

Nov 10, 2005

PGPUB-DOCUMENT-NUMBER: 20050249729

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050249729 A1

TITLE: Anti-TRAIL-R antibody

PUBLICATION-DATE: November 10, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Mori, Eiji	Takasaki-shi		JP
Motoki, Kazuhiro	Takasaki-shi		JP
Kataoka, Shiro	Takasaki-shi		JP

US-CL-CURRENT: 424/143.1; 435/334, 530/388.22

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Draw. Desc.](#) | [Image](#)

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9. Document ID: US 20050244876 A1

L7: Entry 9 of 160

File: PGPB

Nov 3, 2005

PGPUB-DOCUMENT-NUMBER: 20050244876

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050244876 A1

TITLE: Human tumor necrosis factor receptors TR13 and TR14

PUBLICATION-DATE: November 3, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Ni, Jian	Germantown	MD	US
Baker, Kevin P.	Darnestown	MD	US
Ruben, Steven M.	Brookeville	MD	US
Young, Paul E.	Gaithersburg	MD	US

US-CL-CURRENT: 435/6; 435/320.1, 435/325, 435/69.1, 514/12, 530/350, 530/388.22, 536/23.5

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Draw. Desc.](#) | [Image](#)

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10. Document ID: US 20050244857 A1

L7: Entry 10 of 160

File: PGPB

Nov 3, 2005

PGPUB-DOCUMENT-NUMBER: 20050244857

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050244857 A1

TITLE: Death domain containing receptor 4

PUBLICATION-DATE: November 3, 2005

**INVENTOR-INFORMATION:**

NAME	CITY	STATE	COUNTRY
<u>Ni, Jian</u>	Germantown	MD	US
Rosen, Craig A.	Laytonsville	MD	US
Pan, James	Oakville	CA	CA
Gentz, Reiner L.	Belo Horizonte-Mg		BR
Dixit, Vishva M.	Los Altos Hills		US

US-CL-CURRENT: 435/6; 435/320.1, 435/325, 435/69.1, 530/350, 536/23.2

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">KOMC</a>	<a href="#">Drawn Desc</a>	<a href="#">Image</a>
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 11. Document ID: US 20050244417 A1

L7: Entry 11 of 160

File: PGPB

Nov 3, 2005

PGPUB-DOCUMENT-NUMBER: 20050244417

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050244417 A1

TITLE: Apo-2 ligand-anti-Her-2 antibody synergism

PUBLICATION-DATE: November 3, 2005

**INVENTOR-INFORMATION:**

NAME	CITY	STATE	COUNTRY
Ashkenazi, Avi J.	San Mateo	CA	US
Phillips, Gail Lewis	San Carlos	CA	US

US-CL-CURRENT: 424/155.1; 424/178.1, 600/1

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">KOMC</a>	<a href="#">Drawn Desc</a>	<a href="#">Image</a>
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 12. Document ID: US 20050239123 A1

L7: Entry 12 of 160

File: PGPB

Oct 27, 2005

PGPUB-DOCUMENT-NUMBER: 20050239123

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050239123 A1

TITLE: Human tumor necrosis receptor TR9

PUBLICATION-DATE: October 27, 2005

**INVENTOR-INFORMATION:**

NAME	CITY	STATE	COUNTRY
<u>Ni, Jian</u>	Germantown	MD	US
Yu, Guo-Liang	Berkeley	CA	US
Fan, Ping	Rockville	MD	US
Gentz, Reiner L.	Belo Horizonte-Mg		BR

US-CL-CURRENT: 435/6; 435/320.1, 435/325, 435/69.1, 530/350, 536/23.5

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">KOMC</a>	<a href="#">Drawn Desc</a>	<a href="#">Image</a>
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13. Document ID: US 20050233958 A1

L7: Entry 13 of 160

File: PGPB

Oct 20, 2005

PGPUB-DOCUMENT-NUMBER: 20050233958

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050233958 A1

TITLE: Death domain containing receptor 5

PUBLICATION-DATE: October 20, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Ni, Jian	Germantown	MD	US
Gentz, Reiner L.	Belo Horizonte-MG	CA	BR
Yu, Guo-Liang	Berkeley	MD	US
Rosen, Craig A.	Laytonsville		US

US-CL-CURRENT: 514/12; 530/350, 530/388.22

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Draw Desc](#) | [Image](#)

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14. Document ID: US 20050216960 A1

L7: Entry 14 of 160

File: PGPB

Sep 29, 2005

PGPUB-DOCUMENT-NUMBER: 20050216960

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050216960 A1

TITLE: TRAIL-R as a negative regulator of innate immune cell responses

PUBLICATION-DATE: September 29, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Winoto, Astar	Berkeley	CA	US
Diehl, Gretchen Elizabeth	Berkeley	CA	US
Yue, Herman Heng	Berkeley	CA	US

US-CL-CURRENT: 800/8; 514/12

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Draw Desc](#) | [Image](#)

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15. Document ID: US 20050186637 A1

L7: Entry 15 of 160

File: PGPB

Aug 25, 2005

PGPUB-DOCUMENT-NUMBER: 20050186637

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050186637 A1

TITLE: Neutrokinin-alpha and neutrokinin-alpha splice variant

PUBLICATION-DATE: August 25, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Yu, Guo-Liang	Berkeley	CA	US
Ebner, Reinhard	Gaithersburg	MD	US
<u>Ni, Jian</u>	Germantown	MD	US
Rosen, Craig A.	Laytonsville	MD	US
Ullrich, Stephen	Rockville	MD	US

US-CL-CURRENT: 435/7.1; 424/145.1, 424/178.1, 435/335, 530/388.23

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">KIMC</a>	<a href="#">Drawn Desc</a>	<a href="#">Image</a>
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16. Document ID: US 20050186186 A1

L7: Entry 16 of 160

File: PGPB

Aug 25, 2005

PGPUB-DOCUMENT-NUMBER: 20050186186

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050186186 A1

TITLE: Compositions for eliciting immune response and methods for using same

PUBLICATION-DATE: August 25, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Wu, Jiangping	Brossard	NY	CA
Shi, Guixiu	Saranac Lake		US

US-CL-CURRENT: 424/93.21; 435/366

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">KIMC</a>	<a href="#">Drawn Desc</a>	<a href="#">Image</a>
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17. Document ID: US 20050119457 A1

L7: Entry 17 of 160

File: PGPB

Jun 2, 2005

PGPUB-DOCUMENT-NUMBER: 20050119457

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050119457 A1

TITLE: Human proteins

PUBLICATION-DATE: June 2, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
<u>Ni, Jian</u>	Germantown	MD	US
Rosen, Craig A.	Laytonsville	MD	US
Gentz, Reiner	Belo Horizonte-Mg	NJ	BR
Su, Jeffrey Y.	Clinton	MD	US
Krissansen, Geoffrey W.	Auckland		NZ
Feng, Ping	Germantown		US

18. Document ID: US 20050112090 A9

L7: Entry 18 of 160

File: PGPB

May 26, 2005

PGPUB-DOCUMENT-NUMBER: 20050112090

PGPUB-FILING-TYPE: corrected

DOCUMENT-IDENTIFIER: US 20050112090 A9

TITLE: Death domain containing receptor 4

PUBLICATION-DATE: May 26, 2005

## PRIOR-PUBLICATION:

DOC-ID	DATE
US 0136950 A1	July 15, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Ni, Jian	Germantown	MD	US
Rosen, Craig A.	Laytonsville	MD	US
Gentz, Reiner L.	Belo-Horizonte		BR

US-CL-CURRENT: 424/85.1; 424/144.1

19. Document ID: US 20050089958 A1

L7: Entry 19 of 160

File: PGPB

Apr 28, 2005

PGPUB-DOCUMENT-NUMBER: 20050089958

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050089958 A1

TITLE: Apo-2 ligand

PUBLICATION-DATE: April 28, 2005

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Ashkenazi, Avi J.	San Mateo	CA	US
Schwall, Ralph H.	Pacifica	CA	US

US-CL-CURRENT: 435/69.1; 435/320.1, 435/325, 530/351, 536/23.5

20. Document ID: US 20050079172 A1

L7: Entry 20 of 160

File: PGPB

Apr 14, 2005

PGPUB-DOCUMENT-NUMBER: 20050079172

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050079172 A1

TITLE: Methods and compositions for inducing apoptosis in cancer cells

PUBLICATION-DATE: April 14, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Nasoff, Marc	San Diego	CA	US
Deveraux, Quinn L.	San Diego	CA	US
Knee, Deborah A.	Del Mar	CA	US
Aza-Blanc, Pedro	San Diego	CA	US
Hampton, Garret M.	San Diego	CA	US
Wagner, Klaus	San Diego	CA	US

US-CL-CURRENT: 424/141.1; 424/143.1

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Draw Desc](#) | [Image](#)

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21. Document ID: US 20050020498 A1

L7: Entry 21 of 160

File: PGPB

Jan 27, 2005

PGPUB-DOCUMENT-NUMBER: 20050020498

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050020498 A1

TITLE: Apo-2 ligand/trail formulations

PUBLICATION-DATE: January 27, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Flores, Heather	Hayward	CA	US
Lin, Tanya P.	Bronx	NY	US
Matthews, Timothy C.	Millbrae	CA	US
Pai, Roger	Los Altos	CA	US
Shahrokh, Zahra	Weston	MA	US

US-CL-CURRENT: 514/12; 514/565

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Draw Desc](#) | [Image](#)

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22. Document ID: US 20040253708 A1

L7: Entry 22 of 160

File: PGPB

Dec 16, 2004

PGPUB-DOCUMENT-NUMBER: 20040253708

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040253708 A1

TITLE: Apo-2 ligand

PUBLICATION-DATE: December 16, 2004

**INVENTOR-INFORMATION:**

NAME	CITY	STATE	COUNTRY
Ashkenazi, Avi J.	San Mateo	CA	US

US-CL-CURRENT: 435/226; 435/320.1, 435/325, 435/69.1, 536/23.2

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">KMC</a>	<a href="#">Drawn Desc</a>	<a href="#">Image</a>
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 23. Document ID: US 20040248132 A1

L7: Entry 23 of 160

File: PGPB

Dec 9, 2004

PGPUB-DOCUMENT-NUMBER: 20040248132

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040248132 A1

TITLE: DR5 gene promoter and siah-1 gene promoter

PUBLICATION-DATE: December 9, 2004

**INVENTOR-INFORMATION:**

NAME	CITY	STATE	COUNTRY
Sakai, Toshiyuki	Kyoto-shi		JP

US-CL-CURRENT: 435/6; 435/226, 435/320.1, 435/325, 435/69.1, 530/351, 536/23.2

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">KMC</a>	<a href="#">Drawn Desc</a>	<a href="#">Image</a>
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 24. Document ID: US 20040214235 A1

L7: Entry 24 of 160

File: PGPB

Oct 28, 2004

PGPUB-DOCUMENT-NUMBER: 20040214235

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040214235 A1

TITLE: Anti-trail-r antibodies

PUBLICATION-DATE: October 28, 2004

**INVENTOR-INFORMATION:**

NAME	CITY	STATE	COUNTRY
Mori, Eiji	Gunma		JP
Kataoka, Shiro	Gunma		JP

US-CL-CURRENT: 435/7.2; 530/388.22

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">KMC</a>	<a href="#">Drawn Desc</a>	<a href="#">Image</a>
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 25. Document ID: US 20040197870 A1

L7: Entry 25 of 160

File: PGPB

Oct 7, 2004

PGPUB-DOCUMENT-NUMBER: 20040197870

PGPUB-FILING-TYPE: new

TITLE: Human tumor necrosis factor receptor TR9

PUBLICATION-DATE: October 7, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Ni, Jian	Germantown	MD	US
Yu, Guo-Liang	Berkeley	CA	US
Fan, Ping	Rockville	MD	US
Gentz, Reiner L.	Belo Horizonte-Mg		BR

US-CL-CURRENT: 435/69.1; 435/320.1, 435/325, 530/350, 536/23.5

[Full](#) | 
 [Title](#) | 
 [Citation](#) | 
 [Front](#) | 
 [Review](#) | 
 [Classification](#) | 
 [Date](#) | 
 [Reference](#) | 
 [Sequences](#) | 
 [Attachments](#) | 
 [Claims](#) | 
 [KMC](#) | 
 [Drawn Desc](#) | 
 [Image](#)

 26. Document ID: US 20040186051 A1

L7: Entry 26 of 160

File: PGPB

Sep 23, 2004

PGPUB-DOCUMENT-NUMBER: 20040186051

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040186051 A1

TITLE: Apo-2 ligand variants and uses thereof

PUBLICATION-DATE: September 23, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Kelley, Robert F	San Bruno	CA	US
Lindstrom, Stephanie Ho	Millbrae	CA	US

US-CL-CURRENT: 514/12; 435/320.1, 435/325, 435/69.1, 530/350, 536/23.5

[Full](#) | 
 [Title](#) | 
 [Citation](#) | 
 [Front](#) | 
 [Review](#) | 
 [Classification](#) | 
 [Date](#) | 
 [Reference](#) | 
 [Sequences](#) | 
 [Attachments](#) | 
 [Claims](#) | 
 [KMC](#) | 
 [Drawn Desc](#) | 
 [Image](#)

 27. Document ID: US 20040175802 A1

L7: Entry 27 of 160

File: PGPB

Sep 9, 2004

PGPUB-DOCUMENT-NUMBER: 20040175802

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040175802 A1

TITLE: Neutrokinin-alpha and Neutrokinin-alpha splice variant

PUBLICATION-DATE: September 9, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Yu, Guo-Liang	Berkeley	CA	US
Ebner, Reinhard	Gaithersburg	MD	US
<u>Ni, Jian</u>	Germantown	MD	US

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">KMC</a>	<a href="#">Draw Desc</a>	<a href="#">Image</a>
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 28. Document ID: US 20040141952 A1

L7: Entry 28 of 160

File: PGPB

Jul 22, 2004

PGPUB-DOCUMENT-NUMBER: 20040141952

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040141952 A1

TITLE: Death domain containing receptor 5

PUBLICATION-DATE: July 22, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
<u>Ni, Jian</u>	Rockville	MD	US
Gentz, Reiner L.	Rockville	MD	US
Yu, Guo-Liang	Berkeley	CA	US
Rosen, Craig A.	Laytonsville	MD	US

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">KMC</a>	<a href="#">Draw Desc</a>	<a href="#">Image</a>
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 29. Document ID: US 20040136951 A1

L7: Entry 29 of 160

File: PGPB

Jul 15, 2004

PGPUB-DOCUMENT-NUMBER: 20040136951

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040136951 A1

TITLE: Death domain containing receptor 5

PUBLICATION-DATE: July 15, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
<u>Ni, Jian</u>	Germantown	MD	US
Gentz, Reiner L.	Belo Horizonte	CA	BR
Yu, Guo-Liang	Berkeley	MD	US
Rosen, Craig A.	Laytonsville		US

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">KMC</a>	<a href="#">Draw Desc</a>	<a href="#">Image</a>
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 30. Document ID: US 20040136950 A1

L7: Entry 30 of 160

File: PGPB

Jul 15, 2004

PGPUB-DOCUMENT-NUMBER: 20040136950

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040136950 A1

TITLE: Death domain containing receptor 4

PUBLICATION-DATE: July 15, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Ni, Jian	Germantown	MD	US
Rosen, Craig A.	Laytonsville	MD	US
Gentz, Reiner L.	Belo-Horizonte		BR

US-CL-CURRENT: 424/85.1; 424/144.1

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KIMC](#) | [Draw Desc](#) | [Image](#)

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31. Document ID: US 20040048296 A1

L7: Entry 31 of 160

File: PGPB

Mar 11, 2004

PGPUB-DOCUMENT-NUMBER: 20040048296

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040048296 A1

TITLE: Human tumor necrosis factor TR20 and methods based thereon

PUBLICATION-DATE: March 11, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Ruben, Steven M.	Brooksville	MD	US
Baker, Kevin P.	Darnestown	MD	US
<u>Ni, Jian</u>	Germantown	MD	US

US-CL-CURRENT: 435/6; 435/320.1, 435/325, 435/69.1, 530/350, 536/23.5

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KIMC](#) | [Draw Desc](#) | [Image](#)

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32. Document ID: US 20040013664 A1

L7: Entry 32 of 160

File: PGPB

Jan 22, 2004

PGPUB-DOCUMENT-NUMBER: 20040013664

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040013664 A1

TITLE: Tumor necrosis factor receptors 6 alpha & 6 beta

PUBLICATION-DATE: January 22, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Gentz, Reiner L.	Belo Horizonte-Mg	CA	BR
Yu, Guo-Liang	Berkeley	MD	US

<u>Ni, Jian</u>	Germantown	MD	US
Ebner, Reinhard	Gaithersburg	MD	US
Feng, Ping	Germantown	MD	US
Ruben, Steven M.	Brookeville		US

US-CL-CURRENT: 424/130.1; 514/12

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KIMC](#) | [Drawn Desc](#) | [Image](#)

33. Document ID: US 20040009552 A1

L7: Entry 33 of 160

File: PGPB

Jan 15, 2004

PGPUB-DOCUMENT-NUMBER: 20040009552

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040009552 A1

TITLE: Apo-2 receptor

PUBLICATION-DATE: January 15, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Adams, Camellia W.	Mountain View	CA	US
Ashkenazi, Avi J.	San Mateo	CA	US
Chuntharapai, Anan	Colma	CA	US
Kim, Kyung Jin	Los Altos	CA	US

US-CL-CURRENT: 435/69.1; 435/252.33, 435/320.1, 435/358, 530/350, 530/388.22, 536/23.5

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KIMC](#) | [Drawn Desc](#) | [Image](#)

34. Document ID: US 20030198640 A1

L7: Entry 34 of 160

File: PGPB

Oct 23, 2003

PGPUB-DOCUMENT-NUMBER: 20030198640

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030198640 A1

TITLE: Methods and compositions for treating inflammatory bowel diseases relating to human tumor necrosis factor-gamma-beta

PUBLICATION-DATE: October 23, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Yu, Guo-Liang	Berkeley	CA	US
<u>Ni, Jian</u>	Germantown	MD	US
Rosen, Craig A.	Laytonsville	MD	US
Zhang, Jun	San Diego	CA	US
Wei, Ping	Brookeville	MD	US

US-CL-CURRENT: 424/145.1

35. Document ID: US 20030198637 A1

L7: Entry 35 of 160

File: PGPB

Oct 23, 2003

PGPUB-DOCUMENT-NUMBER: 20030198637

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030198637 A1

TITLE: Antibody selective for a tumor necrosis factor-related apoptosis-inducing ligand receptor and uses thereof

PUBLICATION-DATE: October 23, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Zhou, Tong	Birmingham	AL	US
Kimberly, Robert P.	Birmingham	AL	US
Koopman, William J.	Indian Springs	AL	US
LoBuglio, Albert F.	Birmingham	AL	US
Buchsbaum, Donald J.	Montevallo	AL	US

US-CL-CURRENT: 424/141.1; 424/145.1, 530/388.15, 530/388.24

36. Document ID: US 20030190687 A1

L7: Entry 36 of 160

File: PGPB

Oct 9, 2003

PGPUB-DOCUMENT-NUMBER: 20030190687

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030190687 A1

TITLE: Antibody selective for a tumor necrosis factor-related apoptosis-inducing ligand receptor and uses thereof

PUBLICATION-DATE: October 9, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Zhou, Tong	Birmingham	AL	AL
Ichikawa, Kimihisa	Yokohama-shi	AL	JP
Kimberly, Robert P.	Birmingham		US
Koopman, William J	Indian Springs		US

US-CL-CURRENT: 435/7.23; 424/143.1, 514/109, 514/251, 514/263.31, 514/27, 514/283, 514/34,  
514/410, 514/449, 514/49, 514/8, 530/388.22, 600/1

37. Document ID: US 20030180883 A1

L7: Entry 37 of 160

File: PGPB

Sep 25, 2003

PGPUB-DOCUMENT-NUMBER: 20030180883  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030180883 A1

TITLE: Human tumor necrosis factor receptor TR10

PUBLICATION-DATE: September 25, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
<u>Ni, Jian</u>	Germantown	MD	US
Rosen, Craig A.	Laytonsville	MD	US

US-CL-CURRENT: 435/69.1; 435/320.1, 435/325, 530/350, 536/23.5

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KIMC](#) | [Drawn Desc](#) | [Image](#)

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38. Document ID: US 20030175856 A1

L7: Entry 38 of 160

File: PGPB

Sep 18, 2003

PGPUB-DOCUMENT-NUMBER: 20030175856  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030175856 A1

TITLE: RTD RECEPTOR

PUBLICATION-DATE: September 18, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
ASHKENAZI, AVI J.	SAN MATEO	CA	US
GURNEY, AUSTIN	BELMONT	CA	US

US-CL-CURRENT: 435/69.1; 435/320.1, 435/325, 530/350, 530/388.22, 536/23.5

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KIMC](#) | [Drawn Desc](#) | [Image](#)

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39. Document ID: US 20030175208 A1

L7: Entry 39 of 160

File: PGPB

Sep 18, 2003

PGPUB-DOCUMENT-NUMBER: 20030175208  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030175208 A1

TITLE: Neutrokinin-alpha and neutrokinin-alpha splice variant

PUBLICATION-DATE: September 18, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Yu, Guo-Liang	Berkeley	CA	US
Ebner, Reinhard	Gaithersburg	MD	US
<u>Ni, Jian</u>	Germantown	MD	US

Rosen, Craig A.	Laytonsville	MD	US
Ullrich, Stephen	Rockville	MD	US
Laird, Michael	Germantown	MD	US

US-CL-CURRENT: [424/1.49](#); [424/1.69](#)

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">KMC</a>	<a href="#">Drawn Desc</a>	<a href="#">Image</a>
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40. Document ID: US 20030170203 A1

L7: Entry 40 of 160

File: PGPB

Sep 11, 2003

PGPUB-DOCUMENT-NUMBER: 20030170203

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030170203 A1

TITLE: Death domain containing receptors

PUBLICATION-DATE: September 11, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Yu, Guo-Liang	Berkeley	CA	US
<u>Ni, Jian</u>	Germantown	MD	US
Gentz, Reiner L.	Belo Horizonte	CA	BR
Dillon, Patrick J.	Carlsbad		US

US-CL-CURRENT: [424/85.1](#); [424/145.1](#), [514/11](#), [514/210.09](#)

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">KMC</a>	<a href="#">Drawn Desc</a>	<a href="#">Image</a>
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41. Document ID: US 20030166864 A1

L7: Entry 41 of 160

File: PGPB

Sep 4, 2003

PGPUB-DOCUMENT-NUMBER: 20030166864

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030166864 A1

TITLE: Human tumor necrosis factor delta and epsilon

PUBLICATION-DATE: September 4, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Yu, Guo-Liang	Berkeley	CA	US
<u>Ni, Jian</u>	Germantown	MD	US
Gentz, Reiner	Belo Horizonte-Mg		BR

US-CL-CURRENT: [530/351](#); [424/450](#), [424/85.1](#), [435/320.1](#), [435/325](#), [435/69.5](#), [536/23.5](#)

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">KMC</a>	<a href="#">Drawn Desc</a>	<a href="#">Image</a>
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42. Document ID: US 20030153499 A1

L7: Entry 42 of 160

File: PGPB

Aug 14, 2003

PGPUB-DOCUMENT-NUMBER: 20030153499

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030153499 A1

TITLE: Human tumor necrosis factor receptor-like proteins TR11, TR11SV1, and TR11SV2

PUBLICATION-DATE: August 14, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Ni, Jian	Germantown	MD	US
Ruben, Steven M.	Brookeville	MD	US

US-CL-CURRENT: 514/12; 435/320.1, 435/325, 435/69.1, 530/350, 536/23.5

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn Desc](#) | [Image](#)

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43. Document ID: US 20030148455 A1

L7: Entry 43 of 160

File: PGPB

Aug 7, 2003

PGPUB-DOCUMENT-NUMBER: 20030148455

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030148455 A1

TITLE: Apo-2 receptor

PUBLICATION-DATE: August 7, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Adams, Camellia W.	Mountain View	CA	US
Ashkenazi, Avi J.	San Mateo	CA	US
Chuntharapai, Anan	Colma	CA	US
Kim, Kyung Jin	Los Altos	CA	US

US-CL-CURRENT: 435/69.1; 424/145.1, 435/320.1, 435/325, 435/326, 530/359, 530/388.25, 536/23.5

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn Desc](#) | [Image](#)

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44. Document ID: US 20030138915 A1

L7: Entry 44 of 160

File: PGPB

Jul 24, 2003

PGPUB-DOCUMENT-NUMBER: 20030138915

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030138915 A1

TITLE: Apo-2DcR

PUBLICATION-DATE: July 24, 2003

**INVENTOR-INFORMATION:**

NAME	CITY	STATE	COUNTRY
Ashkenazi, Avi J.	San Mateo	CA	US
Baker, Kevin P.	San Mateo	CA	US
Chuntharapai, Anan	Colma	CA	US
Gurney, Austin	Belmont	CA	US
Kim, Kyung Jin	Los Altos	CA	US
Wood, William I.	San Mateo	CA	US

US-CL-CURRENT: 435/69.7; 435/320.1, 435/325, 530/359, 536/23.5

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">KIMC</a>	<a href="#">Draw Desc</a>	<a href="#">Image</a>
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 45. Document ID: US 20030138426 A1

L7: Entry 45 of 160

File: PGPB

Jul 24, 2003

PGPUB-DOCUMENT-NUMBER: 20030138426

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030138426 A1

TITLE: Human tumor necrosis factor receptor-like proteins TR11, TR11SV1, and TR11SV2

PUBLICATION-DATE: July 24, 2003

**INVENTOR-INFORMATION:**

NAME	CITY	STATE	COUNTRY
Ni, Jian	Germantown	MD	US
Ruben, Steven M.	Brookville	MD	US

US-CL-CURRENT: 424/146.1; 435/7.2, 530/388.26

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">KIMC</a>	<a href="#">Draw Desc</a>	<a href="#">Image</a>
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 46. Document ID: US 20030133932 A1

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Search Results - Record(s) 46 through 65 of 160 returned.

46. Document ID: US 20030133932 A1

Using default format because multiple data bases are involved.

L7: Entry 46 of 160

File: PGPB

Jul 17, 2003

PGPUB-DOCUMENT-NUMBER: 20030133932

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030133932 A1

TITLE: Combinations of antibodies selective for a tumor necrosis factor-related apoptosis-inducing ligand receptor and other therapeutic agents

PUBLICATION-DATE: July 17, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Zhou, Tong	Birmingham	AL	US
Ichikawa, Kimihisa	Yokohama-shi	AL	JP
Kimberly, Robert P.	Birmingham	AL	US
Koopman, William J.	Indian Springs	AL	US
Ohsumi, Jun	Yokohama-shi	AL	JP
LoBuglio, Albert F.	Birmingham		US
Buchsbaum, Donald J.	Montevallo		US

US-CL-CURRENT: 424/143.1; 424/85.5, 514/171, 514/251, 514/263.31, 514/269, 514/27, 514/283, 514/34, 514/410, 514/49, 514/492, 514/561, 514/575, 514/629, 514/649, 514/733, 514/8

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KMC](#) [Drawn Desc](#) [Image](#)

47. Document ID: US 20030129189 A1

L7: Entry 47 of 160

File: PGPB

Jul 10, 2003

PGPUB-DOCUMENT-NUMBER: 20030129189

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030129189 A1

TITLE: Tumor necrosis factor-gamma

PUBLICATION-DATE: July 10, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Yu, Guo-Liang	Berkeley	CA	US
Ni, Jian	Germantown	MD	US
Rosen, Craig A.	Laytonsville	MD	US
Zhang, Jun	San Diego	CA	US

US-CL-CURRENT: 424/145.1

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48. Document ID: US 20030118546 A1

L7: Entry 48 of 160

File: PGPB

Jun 26, 2003

PGPUB-DOCUMENT-NUMBER: 20030118546

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030118546 A1

TITLE: Antibodies to tumor necrosis factor 5

PUBLICATION-DATE: June 26, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Wei, Ying-Fei	Berkeley	CA	US
<u>Ni, Jian</u>	Rockville	MD	US
Gentz, Reiner L.	Rockville	MD	US
Ruben, Steven M.	Olney	MD	US

US-CL-CURRENT: 424/85.1; 424/146.1

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49. Document ID: US 20030108516 A1

L7: Entry 49 of 160

File: PGPB

Jun 12, 2003

PGPUB-DOCUMENT-NUMBER: 20030108516

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030108516 A1

TITLE: Death domain containing receptor 4

PUBLICATION-DATE: June 12, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
<u>Ni, Jian</u>	Rockville	MD	US
Rosen, Craig A.	Laytonsville	MD	US
Pan, James G.	Belmont	CA	US
Gentz, Reiner L.	Rockville	MD	US
Dixit, Vishva M.	Los Altos Hills	CA	US

US-CL-CURRENT: 424/85.1; 424/155.1, 514/12

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50. Document ID: US 20030100074 A1

L7: Entry 50 of 160

File: PGPB

May 29, 2003

PGPUB-DOCUMENT-NUMBER: 20030100074

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030100074 A1

TITLE: Methods and compositions for treating metabolic bone diseases relating to human endokine alpha

PUBLICATION-DATE: May 29, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Yu, Guo-Liang	Berkeley	CA	US
<u>Ni, Jian</u>	Germantown	MD	US
Rosen, Craig A.	Laytonsville	CA	US
Nardelli, Bernardetta			US

US-CL-CURRENT: 435/69.5; 435/320.1, 435/325, 530/351, 536/23.5

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Draw Desc](#) | [Image](#)

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51. Document ID: US 20030092101 A1

L7: Entry 51 of 160

File: PGPB

May 15, 2003

PGPUB-DOCUMENT-NUMBER: 20030092101

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030092101 A1

TITLE: Human tumor necrosis factor receptors TR13 and TR14

PUBLICATION-DATE: May 15, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
<u>Ni, Jian</u>	Germantown	MD	US
Baker, Kevin P.	Darnestown	MD	US
Ruben, Steven M.	Olney	MD	US
Young, Paul E.	Gaithersburg	MD	US

US-CL-CURRENT: 435/69.1; 435/320.1, 435/325, 530/350, 536/23.5

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Draw Desc](#) | [Image](#)

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52. Document ID: US 20030049732 A1

L7: Entry 52 of 160

File: PGPB

Mar 13, 2003

PGPUB-DOCUMENT-NUMBER: 20030049732

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030049732 A1

TITLE: Apoptosis related polynucleotides, polypeptides, and antibodies

PUBLICATION-DATE: March 13, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
<u>Ni, Jian</u>	Germantown	MD	US
Young, Paul E.	Gaithersburg	MD	US
Ruben, Steven M.	Olney	MD	US

US-CL-CURRENT: 435/69.1; 435/226, 435/320.1, 435/325, 435/6, 435/7.23, 536/23.2

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn Desc](#) | [Image](#)

53. Document ID: US 20030027284 A1

L7: Entry 53 of 160

File: PGPB

Feb 6, 2003

PGPUB-DOCUMENT-NUMBER: 20030027284

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030027284 A1

TITLE: TUMOR NECROSIS FACTOR-GAMMA

PUBLICATION-DATE: February 6, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
YU, GUO-LIANG	SAN MATEO	CA	US
<u>NI, JIAN</u>	ROCKVILLE	MD	US
ROSEN, CRAIG A.	LAYTONSVILLE	MD	US
ZHANG, JUN	BETHESDA	MD	US

US-CL-CURRENT: 435/69.5; 424/136.1, 435/320.1, 435/325, 514/12, 536/23.5

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn Desc](#) | [Image](#)

54. Document ID: US 20030017161 A1

L7: Entry 54 of 160

File: PGPB

Jan 23, 2003

PGPUB-DOCUMENT-NUMBER: 20030017161

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030017161 A1

TITLE: Apo-2 receptor

PUBLICATION-DATE: January 23, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Ashkenazi, Avi J.	San Mateo	CA	US
Chuntharapai, Anan	Colma	CA	US
Kim, Kyung Jin	Los Altos	CA	US

US-CL-CURRENT: 424/155.1; 530/387.3, 530/388.25

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn Desc](#) | [Image](#)

55. Document ID: US 20020192212 A1

L7: Entry 55 of 160

File: PGPB

Dec 19, 2002

PGPUB-DOCUMENT-NUMBER: 20020192212

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020192212 A1

TITLE: Uses of anti-CX3CR1 antibody, anti-fractalkine antibody and fractalkine

PUBLICATION-DATE: December 19, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Imai, Toshio	Kyoto-shi		JP
Nishimura, Miyuki	Kyoto-shi		JP
Muramoto, Kenzo	Kyoto-shi		JP
Kuboi, Yoshikazu	Tsukuba-shi		JP

US-CL-CURRENT: 424/140.1; 435/7.23

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KOMC](#) | [Drawn Desc](#) | [Image](#)

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56. Document ID: US 20020168729 A1

L7: Entry 56 of 160

File: PGPB

Nov 14, 2002

PGPUB-DOCUMENT-NUMBER: 20020168729

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020168729 A1

TITLE: Human endokine alpha and methods of use

PUBLICATION-DATE: November 14, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Yu, Guo-Liang	Berkeley	CA	US
<u>Ni, Jian</u>	Rockville	MD	US
Rosen, Craig A.	Laytonsville	MD	US

US-CL-CURRENT: 435/69.5; 435/320.1, 435/325, 530/351, 536/23.5

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KOMC](#) | [Drawn Desc](#) | [Image](#)

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57. Document ID: US 20020168359 A1

L7: Entry 57 of 160

File: PGPB

Nov 14, 2002

PGPUB-DOCUMENT-NUMBER: 20020168359

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020168359 A1

TITLE: Human tumor necrosis factor receptor TR9

PUBLICATION-DATE: November 14, 2002

**INVENTOR-INFORMATION:**

NAME	CITY	STATE	COUNTRY
<u>Ni, Jian</u>	Germantown	MD	US
Yu, Guo-Liang	Berkeley	CA	US
Fan, Ping	Potomac	MD	US
Gentz, Reiner L.	Rockville	MD	US

US-CL-CURRENT: 424/139.1; 435/320.1, 435/325, 435/69.1, 530/350, 536/23.2

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">KMC</a>	<a href="#">Draw Desc</a>	<a href="#">Image</a>
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 58. Document ID: US 20020164684 A1

L7: Entry 58 of 160

File: PGPB

Nov 7, 2002

PGPUB-DOCUMENT-NUMBER: 20020164684

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020164684 A1

TITLE: Human tumor necrosis factor receptor TR9

PUBLICATION-DATE: November 7, 2002

**INVENTOR-INFORMATION:**

NAME	CITY	STATE	COUNTRY
<u>Ni, Jian</u>	Rockville	MD	US
Yu, Guo-Liang	San Mateo	CA	US
Fan, Ping	Gaithersburg	MD	US
Gentz, Reiner L.	Silver Spring	MD	US

US-CL-CURRENT: 435/69.1; 435/320.1, 435/325, 530/324, 536/23.5

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">KMC</a>	<a href="#">Draw Desc</a>	<a href="#">Image</a>
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 59. Document ID: US 20020161202 A1

L7: Entry 59 of 160

File: PGPB

Oct 31, 2002

PGPUB-DOCUMENT-NUMBER: 20020161202

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020161202 A1

TITLE: Apo-2DcR

PUBLICATION-DATE: October 31, 2002

**INVENTOR-INFORMATION:**

NAME	CITY	STATE	COUNTRY
Ashkenazi, Avi J.	San Mateo	CA	US
Baker, Kevin P.	San Mateo	CA	US
Gurney, Austin	Belmont	CA	US
Wood, William I.	San Mateo	CA	US

US-CL-CURRENT: 530/391.1; 530/350

60. Document ID: US 20020161196 A1

L7: Entry 60 of 160

File: PGPB

Oct 31, 2002

PGPUB-DOCUMENT-NUMBER: 20020161196

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020161196 A1

TITLE: TRAIL RECEPTORS NUCLEIC ACIDS ENCODING THE SAME AND METHODS OF USE THEREOF

PUBLICATION-DATE: October 31, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Alnemri, Emad S.	Ambler	PA	US

US-CL-CURRENT: 530/350; 435/320.1, 435/325, 435/69.1, 536/23.5

61. Document ID: US 20020161195 A1

L7: Entry 61 of 160

File: PGPB

Oct 31, 2002

PGPUB-DOCUMENT-NUMBER: 20020161195

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020161195 A1

TITLE: Trail receptors, nucleic acids encoding the same, and methods of use thereof

PUBLICATION-DATE: October 31, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Alnemri, Emad S.	Ambler	PA	US

US-CL-CURRENT: 530/350; 435/320.1, 435/325, 435/69.1, 536/23.5

62. Document ID: US 20020155109 A1

L7: Entry 62 of 160

File: PGPB

Oct 24, 2002

PGPUB-DOCUMENT-NUMBER: 20020155109

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020155109 A1

TITLE: Bispecific antibodies that bind TRAIL-R1 and TRAIL-R2

PUBLICATION-DATE: October 24, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Lynch, David H.	Bainbridge Island	WA	US

US-CL-CURRENT: 424/143.1; 530/388.22

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KIMC](#) | [Drawn Desc](#) | [Image](#)

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63. Document ID: US 20020150985 A1

L7: Entry 63 of 160

File: PGPB

Oct 17, 2002

PGPUB-DOCUMENT-NUMBER: 20020150985

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020150985 A1

TITLE: Apo-2 receptor

PUBLICATION-DATE: October 17, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Adams, Camellia W.	Mountain View	CA	US
Ashkenazi, Avi J.	San Mateo	CA	US
Chuntharapai, Anan	Colma	CA	US
Kim, Kyung Jin	Los Altos	CA	US

US-CL-CURRENT: 435/69.1; 424/178.1, 435/252.33, 435/320.1, 435/325, 530/350, 536/23.2

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KIMC](#) | [Drawn Desc](#) | [Image](#)

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64. Document ID: US 20020150583 A1

L7: Entry 64 of 160

File: PGPB

Oct 17, 2002

PGPUB-DOCUMENT-NUMBER: 20020150583

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020150583 A1

TITLE: Tumor necrosis factor receptors 6alpha & 6beta

PUBLICATION-DATE: October 17, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Gentz, Reiner L.	Rockville	MD	US
Ebner, Reinhard	Gaithersburg	MD	US
Yu, Guo-Liang	Berkeley	CA	US
Ruben, Steven M.	Olney	MD	US
<u>Ni, Jian</u>	Germantown	MD	US
Feng, Ping	Gaithersburg	MD	US

US-CL-CURRENT: 424/178.1; 530/389.1

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KIMC](#) | [Drawn Desc](#) | [Image](#)

65. Document ID: US 20020150534 A1

L7: Entry 65 of 160

File: PGPB

Oct 17, 2002

PGPUB-DOCUMENT-NUMBER: 20020150534

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020150534 A1

TITLE: Tumor necrosis factor-gamma

PUBLICATION-DATE: October 17, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Yu, Guo-Liang	Berkeley	CA	US
<u>Ni, Jian</u>	Germantown	MD	US
Rosen, Craig A.	Laytonsville	MD	US
Zhang, Jun	Bethesda	MD	US

US-CL-CURRENT: 424/1.49; 424/145.1

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KOMC](#) [Draw. Desc.](#) [Image](#)

[Clear](#) [Generate Collection](#) [Print](#) [Fwd Refs](#) [Bkwd Refs](#) [Generate OACS](#)

Term	Documents
(3 OR 5) . PGPB, USPT, JPAB, DWPI.	160
(L3 OR L5 ) . PGPB, USPT, JPAB, DWPI.	160

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First Hit Clear Generate Collection Print Fwd Refs Bkwd Refs Generate OACS

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66. Document ID: US 20020141993 A1

**Using default format because multiple data bases are involved.**

L7: Entry 66 of 160

File: PGPB

Oct 3, 2002

PGPUB-DOCUMENT-NUMBER: 20020141993

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020141993 A1

TITLE: Apo-2 ligand-anti-Her-2 antibody synergism

PUBLICATION-DATE: October 3, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Ashkenazi, Avi J.	San Mateo	CA	US
Phillips, Gail Lewis	San Carlos	CA	US

US-CL-CURRENT: 424/143.1; 424/155.1, 600/1

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KIMC](#) [Drawn Desc](#) [Image](#)

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67. Document ID: US 20020123116 A1

L7: Entry 67 of 160

File: PGPB

Sep 5, 2002

PGPUB-DOCUMENT-NUMBER: 20020123116

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020123116 A1

TITLE: Nucleic acids encoding tumor necrosis factor (TNF) receptor homologs

PUBLICATION-DATE: September 5, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Ashkenazi, Avi J.	San Mateo	CA	US

US-CL-CURRENT: 435/184; 514/12, 530/391.1, 536/23.5

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KIMC](#) [Drawn Desc](#) [Image](#)

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68. Document ID: US 20020115154 A1

L7: Entry 68 of 160

File: PGPB

Aug 22, 2002

PGPUB-DOCUMENT-NUMBER: 20020115154

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020115154 A1

TITLE: Trail receptors, nucleic acids encoding the same, and methods of use thereof

PUBLICATION-DATE: August 22, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Alnemri, Emad S.	Ambler	PA	US

US-CL-CURRENT: 435/69.1; 435/320.1, 435/325, 435/6, 530/350, 536/23.5

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn Desc](#) | [Image](#)

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69. Document ID: US 20020115112 A1

L7: Entry 69 of 160

File: PGPB

Aug 22, 2002

PGPUB-DOCUMENT-NUMBER: 20020115112

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020115112 A1

TITLE: Neutrokinin-alpha and Neutrokinin-alpha splice variant

PUBLICATION-DATE: August 22, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Yu, Guo-Liang	Berkeley	CA	US
Ebner, Reinhard	Gaithersburg	MD	US
<u>Ni, Jian</u>	Germantown	MD	US
Rosen, Craig A.	Laytonsville	MD	US
Ullrich, Stephen	Rockville	MD	US

US-CL-CURRENT: 435/7.2; 424/145.1, 530/388.23

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn Desc](#) | [Image](#)

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70. Document ID: US 20020102706 A1

L7: Entry 70 of 160

File: PGPB

Aug 1, 2002

PGPUB-DOCUMENT-NUMBER: 20020102706

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020102706 A1

TITLE: Apo-2DcR

PUBLICATION-DATE: August 1, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Ashkenazi, Avi J.	San Mateo	CA	US
Baker, Kevin P.	San Mateo	CA	US
Chuntharapai, Anan	Colma	CA	US
Gurney, Austin	Belmont	CA	US
Kim, Kyung Jin	Los Altos	CA	US

US-CL-CURRENT: 435/226; 435/320.1, 435/325, 435/69.1

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">KIMC</a>	<a href="#">Drawn Desc</a>	<a href="#">Image</a>
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 71. Document ID: US 20020102233 A1

L7: Entry 71 of 160

File: PGPB

Aug 1, 2002

PGPUB-DOCUMENT-NUMBER: 20020102233

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020102233 A1

TITLE: Apo-2 ligand

PUBLICATION-DATE: August 1, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Ashkenazi, Avi J.	San Mateo	CA	US

US-CL-CURRENT: 424/85.1; 530/351

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">KIMC</a>	<a href="#">Drawn Desc</a>	<a href="#">Image</a>
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 72. Document ID: US 20020098550 A1

L7: Entry 72 of 160

File: PGPB

Jul 25, 2002

PGPUB-DOCUMENT-NUMBER: 20020098550

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020098550 A1

TITLE: Death domain containing receptor 5

PUBLICATION-DATE: July 25, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Ni, Jian	Rockville	MD	US
Gentz, Reiner L.	Silver Spring	MD	US
Yu, Guo-Liang	Darnestown	MD	US
Rosen, Craig A.	Laytonsville	MD	US

US-CL-CURRENT: 435/69.1; 435/320.1, 435/325, 530/350, 536/23.5

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">KIMC</a>	<a href="#">Drawn Desc</a>	<a href="#">Image</a>
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 73. Document ID: US 20020098525 A1

L7: Entry 73 of 160

File: PGPB

Jul 25, 2002

PGPUB-DOCUMENT-NUMBER: 20020098525

PGPUB-FILING-TYPE: new

TITLE: Human tumor, necrosis factor receptor-like proteins TR11, TR11SV1 and TR11SV2

PUBLICATION-DATE: July 25, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
<u>Ni, Jian</u>	Germantown	MD	US
Ruben, Steven M.	Olney	MD	US

US-CL-CURRENT: 435/7.9; 530/388.22

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">KOMC</a>	<a href="#">Drawn Desc</a>	<a href="#">Image</a>
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 74. Document ID: US 20020090683 A1

L7: Entry 74 of 160

File: PGPB

Jul 11, 2002

PGPUB-DOCUMENT-NUMBER: 20020090683

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020090683 A1

TITLE: TUMOR NECROSIS FACTOR-GAMMA

PUBLICATION-DATE: July 11, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
YU, GUO-LIANG	SAN MATEO	CA	US
<u>NI, JIAN</u>	ROCKVILLE	MD	US
ROSEN, CRAIG A.	LAYTONSVILLE	MD	US
ZHANG, JUN	BETHESDA	MD	US

US-CL-CURRENT: 435/69.5; 435/320.1, 435/325, 435/69.1, 530/350, 536/23.5

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">KOMC</a>	<a href="#">Drawn Desc</a>	<a href="#">Image</a>
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 75. Document ID: US 20020072091 A1

L7: Entry 75 of 160

File: PGPB

Jun 13, 2002

PGPUB-DOCUMENT-NUMBER: 20020072091

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020072091 A1

TITLE: Death domain containing receptor 5

PUBLICATION-DATE: June 13, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
<u>Ni, Jian</u>	Rockville	MD	US
Gentz, Reiner L.	Rockville	MD	US
Yu, Guo-Liang	Berkeley	CA	US

US-CL-CURRENT: 435/69.1; 435/320.1, 435/325, 530/350, 536/23.5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KOMC	Draw. Desc	Image
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 76. Document ID: US 20020064829 A1

L7: Entry 76 of 160

File: PGPB

May 30, 2002

PGPUB-DOCUMENT-NUMBER: 20020064829

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020064829 A1

TITLE: Human tumor necrosis factor delta and epsilon

PUBLICATION-DATE: May 30, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Yu, Guo-Liang	Berkeley	CA	US
Ni, Jian	Germantown	MD	US
Gentz, Reiner L.	Rockville	MD	US
Dillon, Patrick J.	Carlsbad	CA	US

US-CL-CURRENT: 435/69.1; 424/145.1, 435/320.1, 435/325, 530/351, 530/388.23, 536/23.5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KOMC	Draw. Desc	Image
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 77. Document ID: US 20020048566 A1

L7: Entry 77 of 160

File: PGPB

Apr 25, 2002

PGPUB-DOCUMENT-NUMBER: 20020048566

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020048566 A1

TITLE: Modulation of cellular apoptosis and methods for treating cancer

PUBLICATION-DATE: April 25, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
El-Deiry, Wafik S.	Bryn Mawr	PA	US
Bernhard, Eric J.	Philadelphia	PA	US
Burns, Timothy F.	Philadelphia	PA	US
McDonald, E. Robert III	Philadelphia	PA	US

US-CL-CURRENT: 424/93.21; 435/320.1, 514/12

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KOMC	Draw. Desc	Image
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 78. Document ID: US 20020004227 A1

PGPUB-DOCUMENT-NUMBER: 20020004227

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020004227 A1

TITLE: Method for making monoclonal antibodies and cross-reactive antibodies obtainable by the method

PUBLICATION-DATE: January 10, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Ashkenazi, Avi J.	San Mateo	CA	US
Chuntharapai, Anan	Colma	CA	US
Kim, K. Jin	Los Altos	CA	US

US-CL-CURRENT: 435/69.1; 435/325, 530/388.22, 536/23.5

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">KOMC</a>	<a href="#">Draw Desc</a>	<a href="#">Image</a>
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 79. Document ID: US 20010029030 A1

L7: Entry 79 of 160

File: PGPB

Oct 11, 2001

PGPUB-DOCUMENT-NUMBER: 20010029030

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010029030 A1

TITLE: NOVEL TRAIL RECEPTORS, NUCLEIC ACIDS ENCODING SAME, AND METHODS OF USE THEREOF

PUBLICATION-DATE: October 11, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
ALNEMRI, EMAD S.	AMBLER	PA	US

US-CL-CURRENT: 435/69.1; 435/320.1, 435/325, 435/7.1, 435/7.2, 514/44, 530/324, 530/387.9, 536/23.5, 800/13

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">KOMC</a>	<a href="#">Draw Desc</a>	<a href="#">Image</a>
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 80. Document ID: US 20010021516 A1

L7: Entry 80 of 160

File: PGPB

Sep 13, 2001

PGPUB-DOCUMENT-NUMBER: 20010021516

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010021516 A1

TITLE: Tumor necrosis factor receptor 5

PUBLICATION-DATE: September 13, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
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Wei, Ying-Fei	San Mateo	CA	US
Gentz, Reiner	Silver Spring	MD	US
Ni, Jian	Rockville	MD	US
Ruben, Steven M.	Olney	MD	US

US-CL-CURRENT: 435/69.1; 435/320.1, 530/350, 536/23.5

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">KIMC</a>	<a href="#">Draw Desc</a>	<a href="#">Image</a>
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81. Document ID: US 20010010924 A1

L7: Entry 81 of 160

File: PGPB

Aug 2, 2001

PGPUB-DOCUMENT-NUMBER: 20010010924

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010010924 A1

TITLE: TUMOR NECROSIS FACTOR RELATED RECEPTOR, TR6 POLYNUCLEOTIDES

PUBLICATION-DATE: August 2, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
DEEN, KEITH CHARLES	GLENMOORE	PA	US
YOUNG, PETER RONALD	LAWRENCEVILLE	NJ	US

US-CL-CURRENT: 435/69.1; 435/325, 435/6, 435/7.2, 514/2, 530/324, 530/387.9, 536/23.5

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">KIMC</a>	<a href="#">Draw Desc</a>	<a href="#">Image</a>
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82. Document ID: US 6998116 B1

L7: Entry 82 of 160

File: USPT

Feb 14, 2006

US-PAT-NO: 6998116

DOCUMENT-IDENTIFIER: US 6998116 B1

TITLE: Apo-2 ligand

DATE-ISSUED: February 14, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ashkenazi; Avi J.	San Mateo	CA		US

US-CL-CURRENT: 424/85.1; 514/12, 530/350, 530/402, 930/140

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">KIMC</a>	<a href="#">Draw Desc</a>	<a href="#">Image</a>
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83. Document ID: US 6969599 B2

L7: Entry 83 of 160

File: USPT

Nov 29, 2005

US-PAT-NO: 6969599

DOCUMENT-IDENTIFIER: US 6969599 B2

TITLE: Nucleic acids encoding tumor necrosis factor receptor TR10

DATE-ISSUED: November 29, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ni; Jian	Germantown	MD		
Rosen; Craig A.	Laytonsville	MD		

US-CL-CURRENT: 435/69.1; 435/320.1, 435/325, 530/350, 536/23.5

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KIMC](#) [Drawn Desc](#) [Image](#)

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84. Document ID: US 6951738 B2

L7: Entry 84 of 160

File: USPT

Oct 4, 2005

US-PAT-NO: 6951738

DOCUMENT-IDENTIFIER: US 6951738 B2

TITLE: Human tumor necrosis factor receptors TR13 and TR14

DATE-ISSUED: October 4, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ni; Jian	Germantown	MD		
Baker; Kevin P.	Darnestown	MD		
Ruben; Steven M.	Olney	MD		
Young; Paul E.	Gaithersburg	MD		

US-CL-CURRENT: 435/69.1; 435/252.3, 435/320.1, 435/325, 435/455, 530/350, 536/23.5

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KIMC](#) [Drawn Desc](#) [Image](#)

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85. Document ID: US 6949358 B1

L7: Entry 85 of 160

File: USPT

Sep 27, 2005

US-PAT-NO: 6949358

DOCUMENT-IDENTIFIER: US 6949358 B1

TITLE: Human tumor necrosis factor receptor TR9

DATE-ISSUED: September 27, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ni; Jian	Rockville	MD		
Yu; Guo-Liang	San Mateo	CA		
Fan; Ping	Gaithersburg	MD		
Gentz; Reiner L.	Silver Spring	MD		

# Hit List

[First] [Clear] [Generate Collection] [Print] [Fwd Refs] [Bkwd Refs] [Generate OACS]

Search Results - Record(s) 86 through 105 of 160 returned.

86. Document ID: US 6919078 B2

Using default format because multiple data bases are involved.

L7: Entry 86 of 160

File: USPT

Jul 19, 2005

US-PAT-NO: 6919078

DOCUMENT-IDENTIFIER: US 6919078 B2

TITLE: Antibodies to human tumor necrosis factor receptor TR9

DATE-ISSUED: July 19, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ni; Jian	Germantown	MD		
Yu; Guo-Liang	Berkeley	CA		
Fan; Ping	Potomac	MD		
Gentz; Reiner L.	Rockville	MD		

US-CL-CURRENT: 424/139.1; 424/178.1, 435/328, 435/334, 435/7.21, 436/501, 530/350, 530/387.3,  
530/387.9, 530/388.15, 530/388.22, 530/389.1, 530/391.1, 530/391.3, 530/391.7

[Full] [Title] [Citation] [Front] [Review] [Classification] [Date] [Reference] [Sequences] [Attachments] [Claims] [KMC] [Draw. Desc] [Image]

87. Document ID: US 6902910 B2

L7: Entry 87 of 160

File: USPT

Jun 7, 2005

US-PAT-NO: 6902910

DOCUMENT-IDENTIFIER: US 6902910 B2

\*\* See image for Certificate of Correction \*\*

TITLE: Death domain containing receptor 4

DATE-ISSUED: June 7, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ni; Jian	Rockville	MD		
Rosen; Craig A.	Laytonsville	MD		
Pan; James G.	Belmont	CA		
Gentz; Reiner L.	Rockville	MD		
Dixit; Vishva M.	Los Altos Hills	CA		

US-CL-CURRENT: 435/69.7; 435/325, 435/69.1, 530/300, 530/350, 530/387.3, 530/388.22, 530/402,  
536/23.1, 536/23.5

[Full] [Title] [Citation] [Front] [Review] [Classification] [Date] [Reference] [Sequences] [Attachments] [Claims] [KMC] [Draw. Desc] [Image]

88. Document ID: US 6881401 B1

L7: Entry 88 of 160

File: USPT

Apr 19, 2005

US-PAT-NO: 6881401

DOCUMENT-IDENTIFIER: US 6881401 B1

TITLE: Methods of treatment of immune system related disorders using Neutrokinin-alpha

DATE-ISSUED: April 19, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yu; Guo-Liang	Berkeley	CA		
Ebner; Reinhard	Gaithersburg	MD		
<u>Ni; Jian</u>	Rockville	MD		
Rosen; Craig A.	Laytonsville	MD		

US-CL-CURRENT: 424/85.1; 424/185.1, 424/198.1, 514/12, 514/2, 530/350, 530/351, 530/399

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KIMC](#) [Drawn Desc](#) [Image](#)

89. Document ID: US 6872568 B1

L7: Entry 89 of 160

File: USPT

Mar 29, 2005

US-PAT-NO: 6872568

DOCUMENT-IDENTIFIER: US 6872568 B1

TITLE: Death domain containing receptor 5 antibodies

DATE-ISSUED: March 29, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
<u>Ni; Jian</u>	Rockville	MD		
Gentz; Reiner L.	Rockville	MD		
Yu; Guo-Liang	Berkeley	CA		
Rosen; Craig A.	Laytonsville	MD		

US-CL-CURRENT: 435/326; 435/330, 435/331, 435/344, 435/7.1, 530/350, 530/387.1, 530/388.1,  
530/388.2, 530/388.8, 530/389.1, 530/389.7, 530/391.3, 536/23.5

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KIMC](#) [Drawn Desc](#) [Image](#)

90. Document ID: US 6824767 B2

L7: Entry 90 of 160

File: USPT

Nov 30, 2004

US-PAT-NO: 6824767

DOCUMENT-IDENTIFIER: US 6824767 B2

TITLE: Tumor necrosis factor-gamma

DATE-ISSUED: November 30, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yu; Guo-Liang	Berkeley	CA		
<u>Ni; Jian</u>	Rockville	MD		
Rosen; Craig A.	Laytonsville	MD		
Zhang; Jun	Bethesda	MD		

US-CL-CURRENT: 424/85.1; 514/12, 530/324, 530/350, 530/387.3, 530/866

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KIMC](#) | [Draw Desc](#) | [Image](#)

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91. Document ID: US 6812327 B1

L7: Entry 91 of 160

File: USPT

Nov 2, 2004

US-PAT-NO: 6812327

DOCUMENT-IDENTIFIER: US 6812327 B1

\*\* See image for Certificate of Correction \*\*

TITLE: Neutrokinin-alpha polypeptides

DATE-ISSUED: November 2, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yu; Guo-Liang	Berkeley	CA		
Ebner; Reinhard	Gaithersburg	MD		
<u>Ni; Jian</u>	Rockville	MD		
Rosen; Craig A.	Laytonsville	MD		

US-CL-CURRENT: 530/351; 424/198.1, 424/85.1, 435/69.5, 530/300, 530/350, 530/399

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KIMC](#) | [Draw Desc](#) | [Image](#)

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92. Document ID: US 6746668 B2

L7: Entry 92 of 160

File: USPT

Jun 8, 2004

US-PAT-NO: 6746668

DOCUMENT-IDENTIFIER: US 6746668 B2

TITLE: Apo-2 ligand

DATE-ISSUED: June 8, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ashkenazi; Avi J.	San Mateo	CA		

US-CL-CURRENT: 424/85.1; 514/12, 514/149, 514/248, 514/283, 530/350, 530/402, 540/478, 544/313,  
544/317, 930/140

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KIMC](#) | [Draw Desc](#) | [Image](#)

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93. Document ID: US 6743625 B2

L7: Entry 93 of 160

File: USPT

Jun 1, 2004

US-PAT-NO: 6743625  
DOCUMENT-IDENTIFIER: US 6743625 B2

TITLE: Death domain containing receptor 5

DATE-ISSUED: June 1, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ni; Jian	Rockville	MD		
Gentz; Reiner L.	Rockville	MD		
Yu; Guo-Liang	Berkeley	CA		
Rosen; Craig A.	Laytonsville	MD		

US-CL-CURRENT: 435/325; 435/252.3, 435/254.11, 435/69.1, 530/350, 536/23.1, 536/23.4, 536/23.5

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | **Sequences** | [Attachments](#) | [Claims](#) | [KIMC](#) | [Drawn Desc](#) | [Image](#)

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94. Document ID: US 6740739 B1

L7: Entry 94 of 160

File: USPT

May 25, 2004

US-PAT-NO: 6740739  
DOCUMENT-IDENTIFIER: US 6740739 B1

TITLE: Substitutional variants of APO-2 ligand

DATE-ISSUED: May 25, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ashkenazi; Avi J.	San Mateo	CA		
Kelley; Robert F.	San Bruno	CA		
O'Connell; Mark P.	Montara	CA		
Pitti; Robert M.	El Cerrito	CA		
Schwall; Ralph A.	Pacifica	CA		

US-CL-CURRENT: 530/399; 424/184.1, 424/185.1, 424/193.1, 424/198.1, 530/350, 530/402, 530/403

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | **Sequences** | [Attachments](#) | [Claims](#) | [KIMC](#) | [Drawn Desc](#) | [Image](#)

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95. Document ID: US 6716576 B1

L7: Entry 95 of 160

File: USPT

Apr 6, 2004

US-PAT-NO: 6716576  
DOCUMENT-IDENTIFIER: US 6716576 B1  
\*\* See image for Certificate of Correction \*\*

TITLE: Method of assaying Neutrokinin-.alpha. mRNA level

DATE-ISSUED: April 6, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yu; Guo-Liang	Berkeley	CA		
Ebner; Reinhard	Gaithersburg	MD		
<u>Ni; Jian</u>	Germantown	MD		

US-CL-CURRENT: 435/6; 435/4, 536/23.1, 536/23.5

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn Desc](#) | [Image](#)

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96. Document ID: US 6689607 B2

L7: Entry 96 of 160

File: USPT

Feb 10, 2004

US-PAT-NO: 6689607

DOCUMENT-IDENTIFIER: US 6689607 B2

TITLE: Human tumor, necrosis factor receptor-like proteins TR11, TR11SV1 and TR11SV2

DATE-ISSUED: February 10, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
<u>Ni; Jian</u>	Germantown	MD		
Ruben; Steven M.	Olney	MD		

US-CL-CURRENT: 435/331; 435/326, 435/328, 435/330, 435/334, 435/343.2, 435/344.1, 435/7.1,  
530/387.1, 530/387.3, 530/387.7, 530/387.9, 530/388.1, 530/388.15, 530/388.22, 530/388.75,  
530/388.8, 530/388.85, 530/389.1, 530/389.7, 530/391.1, 530/391.3

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn Desc](#) | [Image](#)

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97. Document ID: US 6667390 B2

L7: Entry 97 of 160

File: USPT

Dec 23, 2003

US-PAT-NO: 6667390

DOCUMENT-IDENTIFIER: US 6667390 B2

TITLE: Human tumor necrosis factor receptor TR9

DATE-ISSUED: December 23, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
<u>Ni; Jian</u>	Rockville	MD		
Yu; Guo-Liang	San Mateo	CA		
Fan; Ping	Gaithersburg	MD		
Gentz; Reiner L.	Silver Spring	MD		

US-CL-CURRENT: 530/350; 424/178.1, 424/185.1, 424/192.1, 435/325, 435/69.1, 435/69.7, 536/23.5

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn Desc](#) | [Image](#)

98. Document ID: US 6653445 B1

L7: Entry 98 of 160

File: USPT

Nov 25, 2003

US-PAT-NO: 6653445

DOCUMENT-IDENTIFIER: US 6653445 B1

\*\* See image for Certificate of Correction \*\*

TITLE: Human CCV polypeptides

DATE-ISSUED: November 25, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ni; Jian	Rockville	MD		
Rosen; Craig A.	Laytonsville	MD		
Gentz; Reiner	Silver Spring	MD		
Su; Jeffrey Y.	Gaithersburg	MD		
Krissansen; Geoffrey W.	Auckland			NZ
Feng; Ping	Gaithersburg	MD		

US-CL-CURRENT: 530/350; 435/320.1, 435/69.1, 435/69.7, 435/7.1, 530/324, 530/325, 530/326,  
530/327, 530/328, 536/23.1, 536/23.5

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KOMC](#) [Draw. Desc](#) [Image](#)

99. Document ID: US 6642358 B1

L7: Entry 99 of 160

File: USPT

Nov 4, 2003

US-PAT-NO: 6642358

DOCUMENT-IDENTIFIER: US 6642358 B1

TITLE: Receptor that binds trail

DATE-ISSUED: November 4, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Rauch; Charles	Bainbridge Island	WA		
Walczak; Henning	Seattle	WA		

US-CL-CURRENT: 530/350; 435/252.3, 435/320.1, 435/325, 435/455, 435/69.1, 435/7.1, 530/300,  
536/23.1, 536/23.5

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KOMC](#) [Draw. Desc](#) [Image](#)

100. Document ID: US 6635482 B1

L7: Entry 100 of 160

File: USPT

Oct 21, 2003

US-PAT-NO: 6635482

DOCUMENT-IDENTIFIER: US 6635482 B1

\*\* See image for Certificate of Correction \*\*

TITLE: Monoclonal antibodies to membrane neutrokinin-.alpha.

DATE-ISSUED: October 21, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yu; Guo-Liang	Berkeley	CA		
Ebner; Reinhard	Gaithersburg	MD		
<u>Ni; Jian</u>	Rockville	MD		
Rosen; Craig A.	Laytonsville	MD		

US-CL-CURRENT: 435/326; 435/328, 435/331, 435/4, 530/387.1, 530/387.3, 530/387.9, 530/388.1,  
530/388.15

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KOMC](#) | [Drawn Desc](#) | [Image](#)

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101. Document ID: US 6623941 B1

L7: Entry 101 of 160

File: USPT

Sep 23, 2003

US-PAT-NO: 6623941

DOCUMENT-IDENTIFIER: US 6623941 B1

TITLE: Nucleic acids encoding human tumor necrosis factor TR20

DATE-ISSUED: September 23, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ruben; Steven M.	Olney	MD		
Baker; Kevin P.	Darnestown	MD		
<u>Ni; Jian</u>	Germantown	MD		

US-CL-CURRENT: 435/69.1; 435/252.3, 435/320.1, 435/325, 530/350, 536/23.5

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KOMC](#) | [Drawn Desc](#) | [Image](#)

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102. Document ID: US 6607726 B1

L7: Entry 102 of 160

File: USPT

Aug 19, 2003

US-PAT-NO: 6607726

DOCUMENT-IDENTIFIER: US 6607726 B1

TITLE: Human tumor necrosis factor receptor TR10

DATE-ISSUED: August 19, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
<u>Ni; Jian</u>	Rockville	MD		
Rosen; Craig A.	Laytonsville	MD		

US-CL-CURRENT: 424/192.1; 424/134.1, 424/185.1, 435/69.1, 435/69.7, 530/350, 530/387.3,  
536/23.5

103. Document ID: US 6599719 B2

L7: Entry 103 of 160

File: USPT

Jul 29, 2003

US-PAT-NO: 6599719

DOCUMENT-IDENTIFIER: US 6599719 B2

TITLE: Nucleic acid molecules encoding tumor necrosis factor-gamma-alpha

DATE-ISSUED: July 29, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yu; Guo-Liang	San Mateo	CA		
Ni; Jian	Rockville	MD		
Rosen; Craig A.	Laytonsville	MD		

US-CL-CURRENT: 435/69.5; 435/252.3, 435/320.1, 435/69.7, 435/91.4, 530/324, 536/23.5, 536/24.1,  
930/140

104. Document ID: US 6569642 B1

L7: Entry 104 of 160

File: USPT

May 27, 2003

US-PAT-NO: 6569642

DOCUMENT-IDENTIFIER: US 6569642 B1

TITLE: Receptor that binds trail

DATE-ISSUED: May 27, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Rauch; Charles	Bainbridge Island	WA		
Walczak; Henning	Seattle	WA		

US-CL-CURRENT: 435/69.1; 435/235.1, 435/252.3, 435/320.1, 435/325, 435/350, 435/455, 435/70.1,  
530/350

105. Document ID: US 6562579 B1

L7: Entry 105 of 160

File: USPT

May 13, 2003

US-PAT-NO: 6562579

DOCUMENT-IDENTIFIER: US 6562579 B1

\*\* See image for Certificate of Correction \*\*

TITLE: Diagnostic methods using antibodies to Neutrokinin-alpha

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yu; Guo-Liang	Berkeley	CA		
Ebner; Reinhard	Gaithersburg	MD		
<u>Ni; Jian</u>	Rockville	MD		
Rosen; Craig A.	Laytonsville	MD		

US-CL-CURRENT: 435/7.1; 435/7.2, 530/350, 530/387.9, 530/388.1, 530/388.23, 530/389.1,  
530/391.3

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(L3 OR L5 ).PGPB,USPT,JPAB,DWPI.	160

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106. Document ID: US 6541224 B2

Using default format because multiple data bases are involved.

L7: Entry 106 of 160

File: USPT

Apr 1, 2003

US-PAT-NO: 6541224

DOCUMENT-IDENTIFIER: US 6541224 B2

\*\* See image for Certificate of Correction \*\*

TITLE: Tumor necrosis factor delta polypeptides

DATE-ISSUED: April 1, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yu; Guo-Liang	Berkeley	CA		
Ni; Jian	Germantown	MD		
Gentz; Reiner L.	Rockville	MD		
Dillon; Patrick J.	Carlsbad	CA		

US-CL-CURRENT: 435/69.5; 435/69.1, 435/69.7, 435/7.71, 435/70.1, 514/12, 514/2, 530/350,  
530/351

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107. Document ID: US 6506569 B1

L7: Entry 107 of 160

File: USPT

Jan 14, 2003

US-PAT-NO: 6506569

DOCUMENT-IDENTIFIER: US 6506569 B1

TITLE: Antibodies to human tumor necrosis factor receptor TR10

DATE-ISSUED: January 14, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ni; Jian	Rockville	MD		
Rosen; Craig A.	Laytonsville	MD		

US-CL-CURRENT: 435/7.1; 436/501, 530/350, 530/387.1, 530/388.22, 530/389.1, 530/391.1,  
530/391.3

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn Desc](#) | [Image](#)

108. Document ID: US 6503184 B1

US-PAT-NO: 6503184  
DOCUMENT-IDENTIFIER: US 6503184 B1

TITLE: Human tumor necrosis factor receptor-like proteins TR11, TR11SV1 and TR11SV2

DATE-ISSUED: January 7, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
<u>Ni; Jian</u>	Rockville	MD		
Ruben; Steven M.	Olney	MD		

US-CL-CURRENT: 514/12; 514/2

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KOMC](#) | [Drawn Desc](#) | [Image](#)

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109. Document ID: US 6455040 B1

L7: Entry 109 of 160

File: USPT

Sep 24, 2002

US-PAT-NO: 6455040  
DOCUMENT-IDENTIFIER: US 6455040 B1

TITLE: Tumor necrosis factor receptor 5

DATE-ISSUED: September 24, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wei; Ying-Fei	Berkeley	CA		
<u>Ni; Jian</u>	Rockville	MD		
Gentz; Reiner L.	Rockville	MD		
Ruben; Steven M.	Odenton	MD		

US-CL-CURRENT: 424/134.1; 424/138.1, 424/139.1, 424/143.1, 424/178.1, 435/328, 435/334,  
435/7.21, 530/387.3, 530/387.9, 530/388.22

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KOMC](#) | [Drawn Desc](#) | [Image](#)

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110. Document ID: US 6444640 B1

L7: Entry 110 of 160

File: USPT

Sep 3, 2002

US-PAT-NO: 6444640  
DOCUMENT-IDENTIFIER: US 6444640 B1

TITLE: Compositions of trail and DNA damaging drugs and uses thereof

DATE-ISSUED: September 3, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nagane; Motoo	La Jolla	CA		

Cavenee; Webster La Jolla CA  
Huang; Su La Jolla CA

US-CL-CURRENT: 514/2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMPC	Drawn Desc	Image
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111. Document ID: US 6433147 B1

L7: Entry 111 of 160

File: USPT

Aug 13, 2002

US-PAT-NO: 6433147

DOCUMENT-IDENTIFIER: US 6433147 B1

\*\* See image for Certificate of Correction \*\*

TITLE: Death domain containing receptor-4

DATE-ISSUED: August 13, 2002

**INVENTOR-INFORMATION:**

NAME	CITY	STATE	ZIP CODE	COUNTRY
<u>Ni; Jian</u>	Rockville	MD		
Rosen; Craig A.	Laytonsville	MD		
Pan; James G.	Belmont	CA		
Gentz; Reiner L.	Rockville	MD		
Dixit; Vishva M.	Los Altos Hills	CA		

US-CL-CURRENT: 530/387.3, 424/178.1, 435/252.3, 435/254.11, 435/325, 435/69.1, 530/300,  
530/350, 530/402, 536/23.1, 536/23.5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	ICMC	Drawn Descr	Image
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112. Document ID: US 6417328 B1

L7: Entry 112 of 160

File: USPT

Jul 9, 2002

US-PAT-NO: 6417328

DOCUMENT-IDENTIFIER: US 6417328 B1

TITLE: Trail receptors, nucleic acids encoding the same, and methods of use thereof

DATE-ISSUED: July 9, 2002

**INVENTOR-INFORMATION:**

NAME	CITY	STATE	ZIP CODE	COUNTRY
Alnemri; Emad S.	Ambler	PA		

US-CL-CURRENT: 530/350, 435/252.3, 435/254.11, 435/320.1, 435/325, 435/471, 435/69.1, 435/71.1,  
435/71.2, 536/23.1, 536/23.5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Desc	Image
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□ 113. Document ID: US 6406867 B1

US-PAT-NO: 6406867

DOCUMENT-IDENTIFIER: US 6406867 B1

**\*\* See image for Certificate of Correction \*\***

TITLE: Antibody to human endokine alpha and methods of use

DATE-ISSUED: June 18, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yu; Guo-Liang	Berkeley	CA		
<u>Ni; Jian</u>	Rockville	MD		
Rosen; Craig A.	Laytonsville	MD		

US-CL-CURRENT: 435/7.2; 424/130.1, 424/139.1, 424/141.1, 424/142.1, 424/158.1, 530/387.1,  
530/387.9, 530/388.1, 530/388.15, 530/388.24, 530/389.2

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | **Sequences** | [Attachments](#) | [Claims](#) | [KWC](#) | [Draw Desc](#) | [Image](#)

 114. Document ID: US 6403770 B1

L7: Entry 114 of 160

File: USPT

Jun 11, 2002

US-PAT-NO: 6403770

DOCUMENT-IDENTIFIER: US 6403770 B1

**\*\* See image for Certificate of Correction \*\***

TITLE: Antibodies to neutrokinin-alpha

DATE-ISSUED: June 11, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yu; Guo-Liang	Berkeley	CA		
Ebner; Reinhard	Gaithersburg	MD		
<u>Ni; Jian</u>	Rockville	MD		
Rosen; Craig A.	Laytonsville	MD		

US-CL-CURRENT: 530/387.3; 435/69.5, 435/7.1, 530/300, 530/324, 530/351, 530/388.1, 530/388.23

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | **Sequences** | [Attachments](#) | [Claims](#) | [KWC](#) | [Draw Desc](#) | [Image](#)

 115. Document ID: US 6358508 B1

L7: Entry 115 of 160

File: USPT

Mar 19, 2002

US-PAT-NO: 6358508

DOCUMENT-IDENTIFIER: US 6358508 B1

TITLE: Antibodies to human tumor necrosis factor receptor TR9

DATE-ISSUED: March 19, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ni; Jian	Rockville	MD		
Yu; Guo-Liang	Berkeley	CA		
Fan; Ping	Gaithersburg	MD		
Gentz; Reiner L.	Rockville	MD		

US-CL-CURRENT: 424/139.1; 424/178.1, 530/387.9, 530/388.22, 530/389.1, 530/391.3, 530/391.7

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KIMC](#) | [Drawn Desc](#) | [Image](#)

116. Document ID: US 6342369 B1

L7: Entry 116 of 160

File: USPT

Jan 29, 2002

US-PAT-NO: 6342369

DOCUMENT-IDENTIFIER: US 6342369 B1

TITLE: Apo-2-receptor

DATE-ISSUED: January 29, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ashkenazi; Avi J.	San Mateo	CA		

US-CL-CURRENT: 435/69.1; 435/252.3, 435/254.2, 435/320.1, 435/325, 435/361, 530/350, 536/23.5

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KIMC](#) | [Drawn Desc](#) | [Image](#)

117. Document ID: US 6313269 B1

L7: Entry 117 of 160

File: USPT

Nov 6, 2001

US-PAT-NO: 6313269

DOCUMENT-IDENTIFIER: US 6313269 B1

TITLE: Tumor necrosis factor related receptor, TR6

DATE-ISSUED: November 6, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Deen; Keith C.	Glenmore	PA		
Young; Peter R.	Lawrenceville	NJ		
Marshall; Lisa A.	Wyndmoor	PA		
Roshak; Amy K.	East Norriton	PA		
Tan; Kong B.	Philadelphia	PA		
Truneh; Alemseged	West Chester	PA		

US-CL-CURRENT: 530/350; 435/69.1

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KIMC](#) | [Drawn Desc](#) | [Image](#)

118. Document ID: US 6261801 B1

L7: Entry 118 of 160

File: USPT

Jul 17, 2001

US-PAT-NO: 6261801

DOCUMENT-IDENTIFIER: US 6261801 B1

**\*\* See image for Certificate of Correction \*\***

TITLE: Nucleic acids encoding tumor necrosis factor receptor 5

DATE-ISSUED: July 17, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wei; Ying-Fei	San Mateo	CA		
Gentz; Reiner	Silver Spring	MD		
<u>Ni; Jian</u>	Rockville	MD		
Ruben; Steven M.	Olney	MD		

US-CL-CURRENT: 435/69.1; 435/252.3, 435/254.2, 435/320.1, 435/348, 435/361, 435/366, 530/350,  
536/23.5

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KDDC](#) | [Drawn Desc](#) | [Image](#)

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119. Document ID: US 6252050 B1

L7: Entry 119 of 160

File: USPT

Jun 26, 2001

US-PAT-NO: 6252050

DOCUMENT-IDENTIFIER: US 6252050 B1

**\*\* See image for Certificate of Correction \*\***

TITLE: Method for making monoclonal antibodies and cross-reactive antibodies obtainable by the method

DATE-ISSUED: June 26, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ashkenazi; Avi J.	San Mateo	CA		
Chuntharapai; Anan	Colma	CA		
Kim; K. Jin	Los Altos	CA		

US-CL-CURRENT: 530/387.3; 424/143.1, 424/174.1, 435/334, 436/548, 530/388.15, 530/388.22,  
530/389.1

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KDDC](#) | [Drawn Desc](#) | [Image](#)

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120. Document ID: US 6214580 B1

L7: Entry 120 of 160

File: USPT

Apr 10, 2001

US-PAT-NO: 6214580

DOCUMENT-IDENTIFIER: US 6214580 B1

TITLE: Human tumor necrosis factor receptor tr10

DATE-ISSUED: April 10, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ni; Jian	Rockville	MD		
Rosen; Craig A.	Laytonsville	MD		

US-CL-CURRENT: 435/69.1; 435/252.3, 435/320.1, 435/325, 536/23.5

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Draw Desc](#) | [Image](#)

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121. Document ID: US 6072047 A

L7: Entry 121 of 160

File: USPT

Jun 6, 2000

US-PAT-NO: 6072047

DOCUMENT-IDENTIFIER: US 6072047 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Receptor that binds trail

DATE-ISSUED: June 6, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Rauch; Charles	Bainbridge Island	WA		
Walczak; Henning	Seattle	WA		

US-CL-CURRENT: 536/23.5; 435/252.3, 435/320.1, 435/325, 435/6, 435/69.1, 530/350, 536/24.3

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Draw Desc](#) | [Image](#)

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122. Document ID: US 6046048 A

L7: Entry 122 of 160

File: USPT

Apr 4, 2000

US-PAT-NO: 6046048

DOCUMENT-IDENTIFIER: US 6046048 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Apo-2 ligand

DATE-ISSUED: April 4, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ashkenazi; Avi J.	San Mateo	CA		
Chuntharapai; Anan	Colma	CA		
Kim; Kyung Jin	Los Altos	CA		

US-CL-CURRENT: 435/331; 435/335, 435/336, 530/350, 530/388.1, 530/388.24, 536/23.5

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Draw Desc](#) | [Image](#)

123. Document ID: US 6030945 A

L7: Entry 123 of 160

File: USPT

Feb 29, 2000

US-PAT-NO: 6030945

DOCUMENT-IDENTIFIER: US 6030945 A

TITLE: Apo-2 ligand

DATE-ISSUED: February 29, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ashkenazi; Avi J.	San Mateo	CA		

US-CL-CURRENT: 514/12; 424/192.1, 424/198.1, 530/350, 930/140, 930/144

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KIMC](#) | [Draw Desc](#) | [Image](#)

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124. Document ID: JP 2005237370 A

L7: Entry 124 of 160

File: JPAB

Sep 8, 2005

PUB-NO: JP02005237370A

DOCUMENT-IDENTIFIER: JP 2005237370 A

TITLE: Apo-2 LIGAND

PUBN-DATE: September 8, 2005

INVENTOR-INFORMATION:

NAME	COUNTRY
ASHKENAZI, AVI J	
CHUNTHARAPAI, ANAN	
KIM, KYUNG JIN	

ASSIGNEE-INFORMATION:

NAME	COUNTRY
GENENTECH INC	

APPL-NO: JP2004328142

APPL-DATE: November 11, 2004

PRIORITY-DATA: 1996US-584031 (January 9, 1996)

INT-CL (IPC): C12 N 5/10; A61 K 38/00; A61 K 39/395; A61 K 47/48; A61 P 13/08; A61 P 13/10; A61 P 35/00; A61 P 35/02; A61 P 43/00; C07 K 16/24; C12 N 15/09; C12 P 21/08

ABSTRACT:

PROBLEM TO BE SOLVED: To obtain a new cytokine which generally induces mammalian cell apoptosis and is named "Apo-2 ligand", to provide a method for using an Apo-2 ligand antibody, related to identification, isolation, and recombination production of the cytokine, and to provide a method for using a composition.

SOLUTION: This cytokine which induces the mammalian cell apoptosis and is named Apo-2 ligand is thought to be a member of a TNF (tumor necrosis factor) cytokine family. The composition containing an Apo-2 ligand chimera, a nucleic acid which encodes the Apo-2 ligand, and an antibody to the Apo-2 ligand is provided. Further, a method for using the Apo-2 ligand for the purpose of inducing the apoptosis and treating a pathological condition, such as cancer, is

provided.

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125. Document ID: JP 2005232187 A

L7: Entry 125 of 160

File: JPAB

Sep 2, 2005

PUB-NO: JP02005232187A

DOCUMENT-IDENTIFIER: JP 2005232187 A

TITLE: ANTIBODY SELECTIVE FOR TUMOR NECROSIS FACTOR-RELATED APOPTOSIS-INDUCING LIGAND RECEPTOR AND USE THEREOF

PUBN-DATE: September 2, 2005

INVENTOR-INFORMATION:

NAME

COUNTRY

ZHOU, TONG

ICHIKAWA, KIMIHISA

KIMBERLY, ROBERT P

KOOPMAN, WILLIAM J

ASSIGNEE-INFORMATION:

NAME

COUNTRY

UAB RESEARCH FOUNDATION

APPL-NO: JP2005113535

APPL-DATE: April 11, 2005

PRIORITY-DATA: 2000US-201344 (May 2, 2000)

INT-CL (IPC): C07 K 16/28; A61 K 39/395; A61 P 35/00; C07 K 16/46; C12 N 15/09; C12 P 21/08

ABSTRACT:

PROBLEM TO BE SOLVED: To provide an antibody selective for specific TRAIL (tumor necrosis factor-related apoptosis-inducing ligand) receptor DR5 not only binding to cell surface receptor but also strongly inducing apoptosis of various type of fibroblasts (including tumor cells) in vivo and in vitro without requiring crosslinking nor solidification, and to provide medicinal compositions and antitumor agents which comprise the antibody as an active ingredient.

SOLUTION: The antibody is a purified antibody specifically binding to TRAIL receptor DR5, wherein the antibody (a), in vitro, has, in a soluble form, cell death inducing activity to DR5 expression target cells at  $\leq 1 \mu\text{g/ml}$  concentration (b), in vivo, has tumoricidal activity to tumor cells expressing DR5, and (c) binds to none of TRAIL receptor DR4, DcR1 and DcR2.

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126. Document ID: JP 2005168497 A

Using default format because multiple data bases are involved.

L7: Entry 126 of 160

File: JPAB

Jun 30, 2005

PUB-NO: JP02005168497A

DOCUMENT-IDENTIFIER: JP 2005168497 A

TITLE: ANTI-TRAIL-R ANTIBODY AND ITS USE

PUBN-DATE: June 30, 2005

INVENTOR-INFORMATION:

NAME	COUNTRY
MORI, EIJI	
KATAOKA, YUKIRO	

INT-CL (IPC): C12 N 15/09; A61 K 39/395; A61 P 35/00; C07 K 16/28; C12 N 5/10; C12 P 21/08

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KMC](#) [Draw Desc](#) [Image](#)

127. Document ID: US 20060035334 A1

L7: Entry 127 of 160

File: DWPI

Feb 16, 2006

DERWENT-ACC-NO: 2006-163859

DERWENT-WEEK: 200617

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TITLE: New Apo-2 polypeptide, useful for modulating apoptosis and for treating or preventing cancer, e.g. carcinoma, lymphoma, blastoma, sarcoma, or leukemia

INVENTOR: ADAMS, C W; ASHKENAZI, A J ; CHUNTHARAPAI, A ; KIM, K J

PRIORITY-DATA: 2005US-0245053 (October 7, 2005), 1997US-046615P (May 15, 1997), 1998US-074119P (February 9, 1998), 1998US-0079029 (May 14, 1998), 2001US-0052798 (November 2, 2001), 2003US-0423448 (April 25, 2003)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>US 20060035334 A1</u>	February 16, 2006		064	C07K014/435

INT-CL (IPC): C07 H 21/00; C07 H 21/04; C07 K 14/435; C07 K 14/705; C12 N 5/06; C12 N 15/74; C12 P 21/06

ABSTRACTED-PUB-NO: US20060035334A

BASIC-ABSTRACT:

NOVELTY - An isolated Apo-2 polypeptide comprising amino acid residues 1-411 of a sequence comprising 411 amino acids (SEQ ID NO: 1), is new.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for:

- (1) a pharmaceutical composition comprising the polypeptide and a pharmaceutical carrier;
- (2) a fusion protein comprising the polypeptide fused to a heterologous polypeptide; and
- (3) a chimeric molecule comprising the polypeptide fused to a heterologous amino acid sequence.

ACTIVITY - Cytostatic. No biological data given.

MECHANISM OF ACTION - Apo-Modulator-2.

USE - The Apo-2 polypeptide is useful for modulating apoptosis. The polypeptide, composition and method are useful for treating or preventing cancer, e.g. carcinoma, lymphoma, blastoma, sarcoma, or leukemia.

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachment](#) | [Claims](#) | [KMC](#) | [Draw Desc](#) | [Image](#)

128. Document ID: US 20050233958 A1

L7: Entry 128 of 160

File: DWPI

Oct 20, 2005

DERWENT-ACC-NO: 2005-702301

DERWENT-WEEK: 200572

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TITLE: New death domain containing receptor-5 (DR5) polypeptide, useful for treating diseases associated with reduced or increased levels of apoptosis, e.g. lung, breast, ovarian, colorectal or hematological cancer

INVENTOR: GENTZ, R L; NI, J ; ROSEN, C A ; YU, G

PRIORITY-DATA: 2004US-0979831 (November 3, 2004), 1997US-040846P (March 17, 1997), 1997US-054021P (July 29, 1997), 1998US-0042583 (March 17, 1998), 1999US-132498P (May 4, 1999), 1999US-133238P (May 7, 1999), 1999US-148939P (August 13, 1999), 2000US-0565009 (May 4, 2000), 2002US-406307P (August 28, 2002), 2002US-413747P (September 27, 2002), 2003US-0648825 (August 27, 2003), 2004US-551811P (March 11, 2004), 2004US-608429P (September 10, 2004)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>US 20050233958 A1</u>	October 20, 2005		140	A61K038/17

INT-CL (IPC): A61 K 38/17; C07 K 14/705; C07 K 16/28

ABSTRACTED-PUB-NO: US20050233958A

BASIC-ABSTRACT:

NOVELTY - An isolated polypeptide comprising a sequence of 411 amino acids (SEQ ID No. 2), given in the specification, or its fragment, is new.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for:

- (1) a dimer, trimer, or tetramer of the polypeptide;
- (2) a composition comprising the polypeptide, and a carrier;
- (3) an isolated polypeptide encoded by a DNA comprising the nucleotide sequence of 1600 bp (SEQ ID No. 1), given in the specification;
- (4) an isolated polypeptide comprising amino acids n2 to 133 of SEQ ID No. 2, where n2 represents an integer from -51 to 128, and where the polypeptide binds TRAIL;

- (5) an isolated soluble polypeptide comprising an amino acid sequence at least 80 % identical to the sequence of amino acids 1-133 of SEQ ID No. 2;
- (6) a multimer comprising the polypeptide, or at least two of the polypeptides cited above;
- (7) an isolated polynucleotide encoding the polypeptide;
- (8) a composition comprising the multimer, dimer, trimer or tetramer as cited above, and a carrier; and
- (9) an isolated antibody that specifically binds the polypeptide.

ACTIVITY - Cytostatic. No biological data given.

MECHANISM OF ACTION - Death-domain-containing-receptor-5.

USE - The polypeptide and compositions are for useful for treating diseases associated with reduced or increased levels of apoptosis, e.g. lung, breast, ovarian, colorectal or hematological cancer.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMPC	Drawn Desc	Image
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129. Document ID: US 20050089958 A1

L7: Entry 129 of 160

File: DWPI

Apr 28, 2005

DERWENT-ACC-NO: 2005-314090

DERWENT-WEEK: 200604

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TITLE: New isolated soluble Apo-2 ligand polypeptides that induce mammalian cell apoptosis, useful for diagnosing, preventing or treating cancer, or in screening for agents that may treat cancer

INVENTOR: ASHKENAZI, A J; SCHWALL, R H

PRIORITY-DATA: 1996US-009755P (January 9, 1996), 1997US-0780496 (January 8, 1997), 1998US-0007886 (January 15, 1998), 1998US-0060533 (April 15, 1998), 2000US-0479252 (January 7, 2000), 2003US-0652979 (August 29, 2003)

PATENT-FAMILY:

PUB-NO <u>US 20050089958 A1</u>	PUB-DATE April 28, 2005	LANGUAGE	PAGES 053	MAIN-IPC C07K014/52
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INT-CL (IPC): C07 K 14/52

ABSTRACTED-PUB-NO: US20050089958A

BASIC-ABSTRACT:

NOVELTY - An isolated soluble Apo-2 ligand polypeptide consisting of amino acid residues 92-281 of a sequence having 1042 bp fully defined in the specification, is new.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (1) a composition useful in treating a condition, comprising (i) an Apo-2 ligand polypeptide molecule and (ii) a DNA damaging agent that affects apoptosis; and
- (2) a method for treating a subject with a condition that requires affecting apoptosis, comprising administering an amount of the above composition to the subject to affect apoptosis.

ACTIVITY - Cytostatic. No biological data given.

MECHANISM OF ACTION - Gene therapy.

USE - The composition and methods are useful for diagnosing, preventing or treating cancer. These may also be used in tissue typing or in screening for agents that may treat such disease.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMPC	Draw Desc	Image
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130. Document ID: US 20050069955 A1

L7: Entry 130 of 160

File: DWPI

Mar 31, 2005

DERWENT-ACC-NO: 2005-261644

DERWENT-WEEK: 200582

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TITLE: Novel antibody or its fragment comprising consensus sequence that binds to cancer cell, useful for diagnosing or treating diseases such as cancer, autoimmune diseases and inflammatory diseases

INVENTOR: BEN-LEVY, R; HAGAY, Y ; KANFI, Y ; LEVANON, A ; NISGAV, Y ; PLAKSIN, D ; SZANTON, E

PRIORITY-DATA: 2003US-484061P (June 30, 2003), 2004US-0880922 (June 30, 2004)

PATENT-FAMILY:

PUB-NO <u>US 20050069955 A1</u>	PUB-DATE March 31, 2005	LANGUAGE	PAGES 074	MAIN-IPC G01N033/53
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INT-CL (IPC): C07 K 16/18; G01 N 33/53

ABSTRACTED-PUB-NO: US20050069955A

BASIC-ABSTRACT:

NOVELTY - An antibody or its fragment (I) comprising a consensus sequence, is new.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for:

- (1) a pharmaceutical composition (II), comprising (I) and a carrier;
- (2) a diagnostic, prognostic, or staging kit (K1), comprising (I) and an imaging agent;
- (3) an isolated or purified DNA sequence (III) encoding (I);
- (4) an expression vector (IV) comprising (III);
- (5) a recombinant host cell (V) comprising (IV);
- (6) producing (I);
- (7) selecting (M1) an antibody or its fragment, or a polypeptide, involves providing a phage display library, providing a peptide chosen from a fully defined 17 (SEQ ID No. 7) and 18 (SEQ ID No. 44 and 53) amino acid sequence given in the specification, panning the phage display library to select an scFv antibody or its fragment that binds to the peptide chosen from SEQ ID No. 7, 44, a fully defined 18 amino acid sequence (SEQ ID No. 50) given in the specification and SEQ ID No. 53, and producing the selected ScFv antibody or its fragment;
- (8) a library (VII) of immunoglobulin binding domains, comprising a diverse antigen binding domain for complementary binding, where (VII) has diversity only in heavy chain CDR3;
- (9) a small inorganic molecule (VIII) capable of binding to a sulfated epitope of PSGL-1, GPIb,

and/or CCR5; and

(10) a pharmaceutical composition (IX), comprising (VIII).

ACTIVITY - Cytostatic; Anti-HIV; Antiinflammatory; Immunosuppressive; Vasotropic; Cardiovascular-Gen.; Cardiant.

MECHANISM OF ACTION - Apoptosis inducer; Inhibitor of cell growth replication and growth; Inhibitor of platelet aggregation.

Mononuclear cells from B-CLL patients were separated and the cells were incubated in the presence or absence of S15-IgG or control antibodies for 10 minutes at 37 deg. C. Antihuman Fc antibodies were then added and incubated for 4-24 hours at 37 deg. C. Diseased cells (CD19+, CD5+) were then stained with apoptotic markers Annexin and TOPRO (RTM) and analyzed by fluorescence activated cell sorting (FACS). The FACS analysis showed that mononuclear cells (CD19+, CD5+) from B-CLL patients incubated in the presence of S15-IgG exhibited about 10% apoptosis within 5 hours. Addition of secondary antibodies which crosslink the S15-IgG, elicited an additional 50% of apoptosis within 5 hours.

USE - (II) is useful for treating a disease, treating cell rolling, treating an infection (where the infection is caused by HIV and the administration of (II) prevents entry of HIV), treating inflammation, inhibiting autoimmune disease, inhibiting metastasis, inhibiting growth and/or replication of tumor cells, increasing the mortality rate of tumor cells, inhibiting growth and/or replication of leukemia cells, increasing the mortality rate of leukemia cells, inhibiting growth and/or replication of B-CLL cells, altering the susceptibility of diseased cells to damage by anti-cancer agents, increasing the susceptibility of leukemia cells to damage by anti-leukemia agents, increasing the susceptibility of B-CLL cells to damage by anti-leukemia agents, inhibiting platelet aggregation, inhibiting restenosis, eliciting antibody dependent cell-mediated cytotoxicity (ADCC) (mediated by effector cells comprising of natural killer (NK) or monocytic cells), eliciting apoptosis in leukemia cells, stimulating a NK cell or a T cell, and manufacturing medicament for treating a disease. (I) is useful for diagnosing, prognosing or staging a disease in a patient, which involves providing a sample containing a cell from the patient and determining whether (I) binds to the cell of the patient, thus indicating that the patient is at risk for or has the disease. (I) is useful for purging tumor cells from a patient, which involves providing a sample containing cells from the patient and incubating the cells from the patient with (I), where the purging occurs ex vivo. (VII) is useful for selecting a sulfated epitope, which involves providing (VII), panning (VII) for a sulfated epitope that binds to the antigen binding domain, and isolating the sulfated epitope. (V) is useful for producing (I) (claimed).

(II) is useful for treating cardiovascular diseases such as myocardial infarction and inflammatory diseases.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawn Desc	Image
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131. Document ID: EP 1626732 A2, WO 2004103389 A2

L7: Entry 131 of 160

File: DWPI

Feb 22, 2006

DERWENT-ACC-NO: 2005-031066

DERWENT-WEEK: 200615

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TITLE: Inhibitors for preventing, blocking/silencing caspase-2 activity in cell death, for treating or preventing apoptosis during neurodegenerative diseases or natural killer cell-mediated apoptosis associated with immune disease

INVENTOR: BORGNE, A; CHAUVIER, D ; JACOTOT, E ; LANGONNE, A ; LECOEUR, H ; REBOUILLAT, D

PRIORITY-DATA: 2004US-553569P (March 17, 2004), 2003FR-0006190 (May 22, 2003), 2003US-529697P (December 16, 2003)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>EP 1626732 A2</u>	February 22, 2006	E	000	A61K038/00
<u>WO 2004103389 A2</u>	December 2, 2004	E	125	A61K038/00

INT-CL (IPC): A61 K 38/00

ABSTRACTED-PUB-NO: WO2004103389A

BASIC-ABSTRACT:

NOVELTY - Inhibitors for preventing, blocking/silencing caspase-2 activity in cell death, is new.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (1) an in vitro or in vivo inhibition of caspase-2 activity with molecule having the 22-bp sequence;
- (2) molecules that disrupt the interaction between Bax and caspase-2 or to prevent caspase-2 dependent Bax cleavage;
- (3) peptides derived from Bax sequence with a length of 3-40 amino acids including the sequence IQD and that can compete with the putative site of caspase-2 cleavage in Bax;
- (4) pharmaceutical compositions comprising at least one caspase-2 inhibitor and a carrier;
- (5) a method for blocking or preventing cell death; and
- (6) a method for preventing cell death.

ACTIVITY - Neuroprotective; Antiinflammatory; Cardiant; Cytostatic; Vulnerary.

No biological data given.

MECHANISM OF ACTION - Vaccine.

USE - The caspase-2 inhibitors are useful for preparing a pharmaceutical composition for treating or preventing apoptosis during chronic degenerative diseases e.g. neurodegenerative disease including Alzheimer's disease, Huntington's disease, Parkinson's disease, Multiple sclerosis, amyotrophic lateral sclerosis, spinobulbar atrophy, prion disease, during spinal cord injury, or resulting from traumatic brain injury, cytotoxic T cell and natural killer cell-mediated apoptosis associated with autoimmune disease and transplant rejection, or to prevent cell death of cardiac cells including heart failure, cardiomyopathy, viral infection or bacterial infection of heart, myocardial ischemia, myocardial infarct, and myocardial ischemia, coronary artery by-pass graft, mitochondrial drug toxicity e.g. as a result of chemotherapy or HIV therapy, cell death during viral infection or bacterial infection, inflammation or inflammatory diseases, e.g., inflammatory bowel disease, sepsis and septic shock, cell death from follicle to ovocyte stages, from ovocyte to mature egg stages and sperm, acute hepatitis, chronic active hepatitis, hepatitis-B, and hepatitis-C, hair loss, and the hair loss due-to male-pattern baldness, radiation, chemotherapy or emotional stress, skin damage (due to exposure to high level of radiation, heat, burns, chemicals, sun and autoimmune diseases), cell death of bone marrow cells in myelodysplastic syndromes (MDS), pancreatitis, respiratory syndrome, osteoarthritis, rheumatoid arthritis, psoriasis, glomerulonephritis, atherosclerosis, graft versus host disease, retinal pericyte apoptosis, retinal neurons apoptosis, glaucoma, retinal damages resulting from ischemia, diabetic or for preserving fertility in women and men after chemotherapy, or in females and males animals (claimed).

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">KMC</a>	<a href="#">Drawn Desc</a>	<a href="#">Image</a>
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132. Document ID: EP 1624887 A1, WO 2004100981 A1, DE 10321725 A1

L7: Entry 132 of 160

File: DWPI

Feb 15, 2006

**TITLE:** Composition containing hydrolase, useful as pharmaceutical or food supplement for strengthening immunity, e.g. in tumor patients, also includes antioxidants, amino acids or polysaccharides

**INVENTOR:** MILLER, W

**PRIORITY-DATA:** 2003DE-1021725 (May 14, 2003)

**PATENT-FAMILY:**

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>EP 1624887 A1</u>	February 15, 2006	G	000	A61K038/46
<u>WO 2004100981 A1</u>	November 25, 2004	G	040	A61K038/46
<u>DE 10321725 A1</u>	December 2, 2004		000	C12N009/00

**INT-CL (IPC):** A23 L 1/30; A61 K 31/07; A61 K 31/122; A61 K 31/198; A61 K 31/355; A61 K 31/375;  
A61 K 31/715; A61 K 31/716; A61 K 31/717; A61 K 31/718; A61 K 31/721; A61 K 31/722;  
A61 K 31/732; A61 K 31/733; A61 K 38/43; A61 K 38/46; A61 K 38/48; C12 N 9/00; C12 N 9/14

**ABSTRACTED-PUB-NO:** WO2004100981A

**BASIC-ABSTRACT:**

**NOVELTY** - Composition (A) that contains at least one hydrolase (I) and at least one of (a) antioxidants (II), i.e. vitamins, carotenoids, selenium-containing compounds and ubiquinones or (b) amino acids and/or polysaccharides.

**DETAILED DESCRIPTION** - An INDEPENDENT CLAIM is also included for foods (for nutritional supplementation) or pharmaceuticals that contain (A).

**ACTIVITY** - Cytostatic; Antiinflammatory; Antirheumatic; Immunostimulant; Immunomodulator.

No details of tests for these activities are given.

**MECHANISM OF ACTION** - Activation of monocytes and natural killer cells; regulation of DNA repair and initiation of apoptosis.

**USE** - (A) are used as pharmaceuticals and food supplements to provide a balanced diet; to strengthen the immune system and the body's own defenses; to treat inflammation or rheumatic disorders; to regulate the immune system in situations of physical or psychological stress, or before, during and/or after antitumor treatments; and to reduce the risk of relapse or tumors and of secondary malignancies (all claimed).

**ADVANTAGE** - The combination of (I) with (II), amino acids and/or polysaccharides has a greater (synergistic) health-promoting effect than the same materials used individually.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw Desc	Image
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133. Document ID: EP 1576179 A2, WO 2004050895 A2, AU 2003297579 A1, US 20050079172 A1,  
NO 200502922 A

L7: Entry 133 of 160

File: DWPI

Sep 21, 2005

DERWENT-ACC-NO: 2004-450739

DERWENT-WEEK: 200562

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**TITLE:** Inducing apoptosis in cancer cell, involves contacting cell with anti-DR4 or anti-DR5 affinity agent agonist and apoptosis-inducing agent

INVENTOR: AZA-BLANC, P; DEVERAUX, Q L ; HAMPTON, G M ; KNEE, D A ; NASOFF, M ; WAGNER, K

PRIORITY-DATA: 2003US-504901P (September 22, 2003), 2002US-429842P (November 27, 2002), 2003US-448960P (February 21, 2003), 2003US-494714P (August 12, 2003), 2003US-0723383 (November 25, 2003)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>EP 1576179 A2</u>	September 21, 2005	E	000	C12Q001/00
<u>WO 2004050895 A2</u>	June 17, 2004	E	134	C12Q000/00
<u>AU 2003297579 A1</u>	June 23, 2004		000	C12Q000/00
<u>US 20050079172 A1</u>	April 14, 2005		000	A61K039/395
<u>NO 200502922 A</u>	August 17, 2005		000	A61K039/395

INT-CL (IPC): A61 K 39/395; C12 Q 0/00; C12 Q 1/00

ABSTRACTED-PUB-NO: WO2004050895A

BASIC-ABSTRACT:

NOVELTY - Inducing apoptosis in a cancer cell, involves contacting cell with anti-DR4/anti-DR5 affinity agent agonist and apoptosis-inducing agent, or with an affinity agent with binding specificity of an antibody comprising heavy chain variable region having a fully defined sequence of 118 amino acids as given in the specification, and light chain variable region having a fully defined sequence of 109 amino acids as given in the specification.

DETAILED DESCRIPTION - Inducing (M1) apoptosis in a cancer cell, involves contacting the cell with anti-DR4 or anti-DR5 affinity agent agonist and apoptosis-inducing agent, or contacting the cell with an affinity agent with the binding specificity of an antibody comprising a heavy chain variable region having a fully defined sequence of 118 amino acids (S1) as given in the specification, and a light chain variable region having a fully defined sequence of 109 amino acids (S2) as given in the specification.

INDEPENDENT CLAIMS are also included for the following:

- (1) inducing (M2) apoptosis in cancer cell in an individual, involves administering an anti-DR4 or anti-DR5 affinity agent agonist, and apoptosis-inducing agent to the individual;
- (2) a physiological composition comprising anti-DR4 or anti-DR5 affinity agent agonist and apoptosis-inducing agent;
- (3) an affinity agent with the binding specificity of antibody (I) comprising heavy chain variable region having (S1), and a light chain variable region having (S2); and
- (4) a cell that expresses (I).

ACTIVITY - Cytostatic.

In vivo efficacy of the antibodies was tested. Ten mice were injected with 5 multiply 106 colon 205 (colon tumor cells) subcutaneously at day 0. Treatment with the DR5 antibody (400 micro grams) was started on day 11. After 2 injections with 400 micro grams of DR5 the 5 treated animals showed no evidence of tumor whereas all the 5 mice given phosphate buffered saline (PBS) had large tumors. Thus the antibody appeared to be effective in vivo.

MECHANISM OF ACTION - Apoptosis inducer; Anti-DR4 or anti-DR5 agonist; Proteasome inhibitor; Inhibitor of IAP protein; Antagonist of PAK1, nsurf and JIK (claimed).

USE - (M1) is useful for inducing apoptosis in a cancer cell such as colon cancer cell or pancreatic cancer cell (claimed).

DESCRIPTION OF DRAWING(S) - The figure is a graph representing specificity of DR5 functional antibodies.

DERWENT-ACC-NO: 2004-440352

DERWENT-WEEK: 200449

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TITLE: Study of genetic region UL131-128 which determines leukotropism, monocyte tropism or endothelial cell tropism in human cytomegalovirus (HCMV) in FIX-BAC and all HCMV laboratory and wild-type strains and BAC-cloned HCMV strains

INVENTOR: HAHN, G

PRIORITY-DATA: 2002DE-1032322 (July 16, 2002)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>DE 10232322 A1</u>	July 29, 2004		000	C12Q001/70
<u>US 20040110188 A1</u>	June 10, 2004		056	C12Q001/70

INT-CL (IPC): C12 P 21/04; C12 Q 1/68; C12 Q 1/70

ABSTRACTED-PUB-NO: US20040110188A

BASIC-ABSTRACT:

NOVELTY - A study of the genetic region UL131-128 which determines leukotropism, monocyte tropism and endothelial cell tropism in human cytomegalovirus (HCMV) in Fusion-Inducing-Factor-X-bacterial artificial chromosome (FIX-BAC) and all HCMV laboratory and wild-type strains as well as BAC-cloned HCMV strains such as (TowL-BAC, HB-5-BAC, TowS-BAC, TB40E-BAC, Phoebe-BAC, Powers-BAC, AD169-BAC) and their respective reconstituted viruses, is new.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (1) a study and synthesis of the newly identified viral transcripts running through the UL131-128 genetic region which are either spliced or unspliced, sense or anti-sense and which are encoding novel CxC, CC chemokines or other attachment, fusion and cell attraction factors;
- (2) a study and synthesis of the newly disclosed protein products HCK-1, HCK-2, HCK-3, HCK-4 and HCK-5 as well as other potential proteins encoded by the UL132-UL128 and UL131-128 genetic region of FIX-BAC, TowL-BAC, HB-5-BAC, TowS-BAC, TB40E-BAC, Phoebe-BAC, Powers-BAC, AD169-BAC, their respective reconstituted viruses, wild-type and laboratory strains;
- (3) production of monoclonal antibodies against HCK-1, HCK-2, HCK-3, HCK-4 and HCK-5, synthesis of chemo-therapeutic agents interfering with HCK-1 to HCK-5 (e.g. small molecules, anti-sense RNA, siRNA);
- (4) construction and study of cell lines which express or secrete HCK-1 to HCK-5;
- (5) study of tissue tropism and pathogenesis of HCMV in vitro and in vivo by constructing virus mutants which express HCK-1 to HCK-5 or the newly identified transcripts (95-3, 95-8, 95-11, 128A, 128B) or other as yet unidentified transcripts of the UL132-128 or UL131-128 region;
- (6) study of the transcriptional and posttranscriptional regulatory mechanisms which regulate or modify the expression of HCK-1 to HCK-5 or other UL132-128 or UL131-128 encoded chemokine and microfusion inducing factors regarding tissue tropism, pathogenesis of HCMV, other herpesviruses as well as DNA and RNA viruses;
- (7) expression of HCK-1 to HCK-5 or the above newly identified transcripts in human or animal cells, particularly immune cells, to study or influence trafficking of such cells;
- (8) study of HCK-1 to HCK-5 or the newly identified transcripts in connection with CxC and CC

chemokine receptor mediated entry of HCMV, other Herpesviruses, DNA and RNA viruses (e.g. HIV) into target cells and study of cell adherence mechanisms;

(9) structural analyses of HCK-1 to HCK-5 and other chemokine, cytokine adherence and microfusion factors encoded by the UL132-128 or UL131-128 genetic locus;

(10) study of co-infection or transfection of target cells (expressing HCK-1 to HCK-5) by HCMV and other DNA and RNA viruses, especially HIV virus; and

(11) study of HCK-1 to HCK-5 or the newly identified transcripts in vivo, in vitro and in animal models in connection with the development of vascular damage, arteritis, vasculitis, arteriosclerosis and stenosis of the vessel wall and mechanisms of protection against such diseases.

ACTIVITY - Virucide; Immunosuppressive; Cytostatic; Antiarteriosclerotic; Vasotropic; Antiinflammatory; Antirheumatic.

No biological data given.

MECHANISM OF ACTION - Gene therapy.

USE - The newly identified virus encoded chemokines HCK-1 to HCK-5 or the newly identified transcripts or therapeutic agents directed against them are used for therapy of virus-induced diseases, autoimmune disease, cancer, atherosclerosis, vasculitis, rheumatoid disease, gene therapy, vector development, vaccine development, study of trafficking and migration of leukocytes, monocytes, dendritic cells, natural killer cells, T-cells, B-cells, study of latency and reactivation of HCMV, induction or prevention of apoptosis, activation or resistance of virally infected target cells to NK cells and T cells (claimed).

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Drawn Desc	Image
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135. Document ID: US 20040009552 A1

L7: Entry 135 of 160

File: DWPI

Jan 15, 2004

DERWENT-ACC-NO: 2004-090468

DERWENT-WEEK: 200617

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TITLE: New Apo-2 polypeptides and encoding nucleic acid molecules, useful for diagnosing, preventing or treating cancer, and in tissue typing or in generating antibodies or transgenic animals

INVENTOR: ADAMS, C W; ASHKENAZI, A J ; CHUNTHARAPAI, A ; KIM, K J

PRIORITY-DATA: 2003US-0423448 (April 25, 2003), 1997US-046615P (May 15, 1997), 1998US-074119P (February 9, 1998), 1998US-0079029 (May 14, 1998), 2001US-0052798 (November 2, 2001), 2002US-0288917 (November 6, 2002)

PATENT-FAMILY:

PUB-NO <u>US 20040009552 A1</u>	PUB-DATE January 15, 2004	LANGUAGE	PAGES 053	MAIN-IPC C07K014/705
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INT-CL (IPC): C07 K 14/705; C07 K 16/28; C12 N 1/21; C12 N 5/06; C12 N 15/74; C12 P 21/02

ABSTRACTED-PUB-NO: US20040009552A

BASIC-ABSTRACT:

NOVELTY - An isolated Apo-2 polypeptide, or its extracellular or death domain sequence, is new. The polypeptide comprises amino acid residues 1-411 of a 411 amino acid sequence (S1), given in the specification, or a sequence having at least 80 % identity with native sequence Apo-2 polypeptide comprising residues 1-411 of S1. The extracellular domain sequence comprises

residues 54-182 of S1, and the death domain sequence comprises residues 324-391 of S1.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (1) an isolated nucleic acid comprising a DNA encoding the new polypeptide, or its extracellular domain sequence or death domain sequence, or a DNA encoding an Apo-2 antibody;
- (2) a vector comprising the nucleic acid;
- (3) a host cell comprising the vector;
- (4) producing an Apo-2 polypeptide, comprising culturing the host cell under conditions sufficient to express Apo-2 polypeptide, and recovering the expressed Apo-2 polypeptide from the culture;
- (5) an Apo-2 polypeptide obtained by expressing the polypeptide encoded by the cDNA insert in ATCC deposit accession number 209021;
- (6) a non-human, transgenic or knock-out animal which contains cells that express DNA encoding Apo-2 polypeptide, or cells having an altered gene encoding Apo-2 polypeptide;
- (7) an antibody that specifically binds to an Apo-2 polypeptide;
- (8) a hybridoma cell line producing the antibody;
- (9) a chimeric molecule comprising the new Apo-2 polypeptide or the extracellular domain sequence, or the antibody, fused to a heterologous amino acid sequence;
- (10) a dimeric molecule comprising the Apo-2 antibody and a heterologous antibody; or a homodimeric molecule comprising a first Apo-2 antibody and a second Apo-2 antibody;
- (11) producing an Apo-2 antibody, comprising culturing the host cell under conditions where the DNA is expressed;
- (12) a composition comprising the antibody and a pharmaceutical carrier;
- (13) inducing apoptosis in mammalian cancer cells, comprising exposing mammalian cancer cells to an amount of the Apo-2 agonistic antibody;
- (14) treating mammalian cancer cells, comprising exposing mammalian cancer cells to an agent that activates Apo-2; and
- (15) an article of manufacture comprising a container and a composition contained within the container, where the composition includes the above Apo-2 polypeptide or Apo-2 antibody.

ACTIVITY - Cytostatic.

No biological data given.

MECHANISM OF ACTION - Gene therapy.

USE - The composition and methods are useful in diagnosing, treating or preventing cancer. The polypeptide and nucleic acid molecule may also be used in tissue typing, in generating antibodies or in generating transgenic animals.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMPC	Drawn Desc	Image
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136. Document ID: JP 2005517021 W, WO 2003066661 A2, AU 2002366430 A1, EP 1409544 A2, US 20040147725 A1

L7: Entry 136 of 160

File: DWPI

Jun 9, 2005

**TITLE:** Human death receptor monoclonal antibody useful for treating e.g. cancer, rheumatoid arthritis and allergic diseases, comprises antibody which competitively inhibits binding of hybridoma monoclonal antibody by binding to receptor

**INVENTOR:** CHUNTHARAPAI, A; KIM, K J

**PRIORITY-DATA:** 2001US-303220P (July 3, 2001), 2003US-0480730 (December 12, 2003)

**PATENT-FAMILY:**

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>JP 2005517021 W</u>	June 9, 2005		074	C07K016/28
<u>WO 2003066661 A2</u>	August 14, 2003	E	055	C07K000/00
<u>AU 2002366430 A1</u>	September 2, 2003		000	C07K000/00
<u>EP 1409544 A2</u>	April 21, 2004	E	000	C07K014/705
<u>US 20040147725 A1</u>	July 29, 2004		000	C07K016/30

**INT-CL (IPC):** A61 K 39/00; A61 K 39/395; A61 P 35/00; A61 P 43/00; C07 K 0/00; C07 K 14/705; C07 K 16/28; C07 K 16/30; C07 K 16/46; C12 N 5/10; C12 N 5/16; C12 N 5/18; C12 N 15/02; G01 N 33/574

**ABSTRACTED-PUB-NO:** WO2003066661A

**BASIC-ABSTRACT:**

**NOVELTY** - An isolated anti-human death receptor-4 (DR4) monoclonal antibody (A1) comprises an antibody binding to DR4 receptor and competitively inhibits binding of the monoclonal antibody (A2) produced by the hybridoma deposited as ATCC PTA-3359-3361 to the receptor.

The DR4 receptor comprises 1-218 amino acids of the sequence as given in the specification.

**DETAILED DESCRIPTION - INDEPENDENT CLAIMS** are also included for:

- (1) the hybridoma deposited as ATCC PTA-3359-3361;
- (2) the monoclonal antibody (A2) produced by the hybridoma;
- (3) a pharmaceutical composition comprising (A1) and a carrier;
- (4) a method of inducing apoptosis in mammalian cells comprising exposing the cells to (A1);
- (5) a kit (I) containing a container and (A1) or its antigen binding fragment within the container; and
- (6) a kit (II) containing two containers and instructions for using (A2) or its antigen binding fragment. One container contains a composition comprising (A1), and has a label on it indicating its use to induce apoptosis. The other container contains a buffer.

**ACTIVITY** - Cytostatic; Antiinflammatory; Dermatological; Immunosuppressive; Antirheumatic; Antiarthritic; Antiallergic; Antipsoriatic; Antianemic; Antithyroid; Hemostatic; Thyromimetic; Antidiabetic; Nephrotropic; Neuroprotective; Virucide; Hepatotropic; Antiulcer; Antiasthmatic; Anti-HIV; Antibacterial; Antifungal; Protozoacide; Antiparasitic.

**MECHANISM OF ACTION** - Apoptosis inducer; Apoprotein-2 (Apo-2) ligand induced apoptosis inhibitor; Caspase 3/8/10 and FADD activator.

The efficacy of crosslinked human DR4 antibodies - 1G11 antibodies to induce apoptosis was evaluated on 9D cells. The 9D cells (5 multiply 105) were suspended in complete RPMI medium (supplemented with 10% fetal calf serum, glutamine, nonessential amino acids, penicillin, streptomycin, and sodium pyruvate) and incubated with DR4 antibodies (10 micro g/100 micro l) on ice for 15 minutes (t1). The cells were then incubated with goat anti-human IgG-Fc (100 micro g/ml) (t2) in RPMI medium at 37 deg. C for 24 hours in the presence of 7% carbon dioxide (CO2). After incubation, the cells were washed with phosphate buffered saline, then suspended

in binding buffer (200 micro l). The cells were then incubated with FITC-Annexin V (10 micro l) and propidium iodide in the dark for 15 minutes and then analyzed by fluorescence activated cell sorter analysis. The apoptotic 9D cells (%) were 40/70 in t1/t2 cultures.

The results showed that 1G11 antibodies induced apoptosis of 9D cells when cross-linked with anti-Fc IgG.

USE - (A1) Is used for inducing apoptosis in mammalian cells (e.g. 9D cells, colon, colorectal and lung cancer cells) (claimed). (A1) is also used for treating cancer (e.g. glioma, Hodgkin's lymphoma and ovarian cancer), immune-mediated inflammatory diseases and infectious diseases (e.g. systemic lupus erythematosus, rheumatoid arthritis, systemic sclerosis, idiopathic inflammatory myopathies such as polymyositis, Sjogren's disease, systemic vasculitis, sarcoidosis, autoimmune hemolytic anemia, autoimmune thrombocytopenia, idiopathic thrombocytopenic purpura, Hashimoto's thyroiditis, Grave's disease, diabetes mellitus, glomerulonephritis, multiple sclerosis, idiopathic demyelinating polyneuropathy, Guillain-Barre syndrome, hepatitis caused by hepatitis A-E and other non-hepatotropic viruses, primary biliary cirrhosis, granulomatous hepatitis, inflammatory bowel disease, ulcerative colitis, Crohn's disease, erythema, contact dermatitis, psoriasis, allergic diseases, asthma, allergic rhinitis, atopic dermatitis, urticaria, eosinophilic pneumonia, idiopathic pulmonary fibrosis, transplantation associated diseases (e.g. graft rejection and graft versus host disease), AIDS, bacterial infections, fungal, protozoal and parasitic infections. Also used in diagnostic assays to detecting expression or overexpression of DR4 in specific cells and tissues.

ADVANTAGE - The human DR4 antibodies are specifically binds to the human DR4 and/or modulates biological activities associated with DR4 and/or its ligand.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMPC	Draw Desc	Image
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137. Document ID: US 20030148455 A1

L7: Entry 137 of 160

File: DWPI

Aug 7, 2003

DERWENT-ACC-NO: 2003-897574

DERWENT-WEEK: 200617

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TITLE: New Apo-2 polypeptide or its extracellular or death domain sequence, useful for modulating apoptosis in mammalian cancer cells or for generating transgenic or knockout animals

INVENTOR: ADAMS, C W; ASHKENAZI, A J ; CHUNTHARAPAI, A ; KIM, K J

PRIORITY-DATA: 2002US-0288917 (November 6, 2002), 1997US-046615P (May 15, 1997), 1998US-074119P (February 9, 1998), 1998US-0079029 (May 14, 1998), 2001US-0052798 (November 2, 2001)

PATENT-FAMILY:

PUB-NO <u>US 20030148455 A1</u>	PUB-DATE August 7, 2003	LANGUAGE	PAGES 064	MAIN-IPC A61K039/395
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INT-CL (IPC): A61 K 39/395; C07 H 21/04; C07 K 14/775; C07 K 16/22; C12 N 5/06; C12 P 21/02

ABSTRACTED-PUB-NO: US20030148455A

BASIC-ABSTRACT:

NOVELTY - A new isolated Apo-2 polypeptide comprises amino acid residues 1-411 of a sequence having 411 amino acids (S1) fully defined in the specification, or a sequence that is at least 80% identical to a native sequence Apo-2 polypeptide comprising S1. The Apo-2 polypeptide comprises an extracellular domain comprising amino acid residues 54-182 of S1. Its isolated death domain sequence comprises amino acid residues 324-391 of S1.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (1) a process of producing an Apo-2 polypeptide, comprising culturing the host cell under

conditions sufficient to express Apo-2 polypeptide and recovering the Apo-2 polypeptide from the culture;

- (2) a non-human transgenic or knockout animal which contains cells that express DNA encoding Apo-2 polypeptide, or cells having an altered gene encoding Apo-2 polypeptide;
- (3) an antibody which specifically binds to an Apo-2 polypeptide;
- (4) a hybridoma cell line which produces the antibody;
- (5) a chimeric molecule comprising the above antibody or the Apo-2 polypeptide or its extracellular domain sequence fused to a heterologous amino acid sequence;
- (6) a dimeric molecule comprising the Apo-2 antibody and a heterologous antibody; or a homodimeric molecule comprising a first Apo-2 antibody and a second Apo-2 antibody;
- (7) an isolated nucleic acid comprising a DNA encoding the polypeptide or its extracellular or death domain sequence, or the above Apo-2 antibody;
- (8) a vector comprising the above nucleic acid;
- (9) a host cell comprising the vector;
- (10) a method of producing an Apo-2 antibody, comprising culturing the above host cell under conditions where the DNA is expressed;
- (11) a composition comprising the antibody and a carrier;
- (12) methods of treating or inducing apoptosis in mammalian cancer cells, comprising exposing mammalian cancer cells to an amount of the Apo-2 agonistic antibody cited above or to an agent that activates Apo-2; and
- (13) an article of manufacture comprising a container and a composition contained within the container, where the composition includes the above Apo-2 polypeptide or antibody.

ACTIVITY - Cytostatic.

MECHANISM OF ACTION - Gene therapy.

USE - The composition and methods are useful in inducing apoptosis in mammalian cancer cells. These may also be used in diagnostic procedures for tissue-specific typing and in generating transgenic or knockout animals that are useful in development and screening of reagents.

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | **Sequences** | **Attachments** | [Claims](#) | [KMC](#) | [Draw Desc](#) | [Image](#)

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138. Document ID: JP 2003540352 X, WO 2003038087 A1, EP 1439225 A1, AU 2002349524 A1, US 20040248132 A1

L7: Entry 138 of 160

File: DWPI

Feb 24, 2005

DERWENT-ACC-NO: 2003-449354

DERWENT-WEEK: 200516

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TITLE: Nucleic acid that functions as a promoter useful the in treatment of cancer

INVENTOR: SAKAI, T

PRIORITY-DATA: 2001JP-0309179 (October 4, 2001)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
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<u>JP 2003540352 X</u>	February 24, 2005	036	C12N015/09
<u>WO 2003038087 A1</u>	May 8, 2003	053	C12N015/09
<u>EP 1439225 A1</u>	July 21, 2004	E	000 C12N015/09
<u>AU 2002349524 A1</u>	May 12, 2003	000	C12N015/09
<u>US 20040248132 A1</u>	December 9, 2004	000	C12Q001/68

INT-CL (IPC): C07 H 21/04; C12 N 1/15; C12 N 1/19; C12 N 1/21; C12 N 5/10; C12 N 9/64;  
C12 N 15/09; C12 Q 1/02; C12 Q 1/68; G01 N 33/15; G01 N 33/50; G01 N 33/566

ABSTRACTED-PUB-NO: WO2003038087A

BASIC-ABSTRACT:

NOVELTY - Nucleic acid (I) that functions as a promoter, comprises nucleotides 1029-1034 or 1075-1080 of a fully defined sequence, given in the specification, or a nucleic acid with a maximum of 6 bases upstream and/or downstream of the sequence, is new.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (1) Screening for substances that control promoter activity;
- (2) Substances identified by the screening method;
- (3) Vectors comprising (I) and a reporter gene; and
- (4) Cells comprising the vectors.

ACTIVITY - Cytostatic.

No biological data given.

MECHANISM OF ACTION - The DR5 gene and Siah-1 gene are associated with cancer control via apoptosis and cell cycle disruption.

USE - Substances identified by the screening method are useful in the treatment of cancer (claimed). Human Saos2 cells with null p53 was transfected with p53 expression plasmid p53 and CMV-neoBam. After 24 hours luciferase activity in the cell solution was tested, but p53 did not cause any significant increase in activity. Therefore there was the possibility that p53 expressed Siah-1 via a different part to the p53 bonding region of the Siah-1 promoter. From this, it can be seen that substances that express Siah-1 via the Siah-1 promoter may cause the p53 pathway to occur normally even when the p53 protein is missing. No supporting data given.

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KWD](#) | [Draw Desc](#) | [Image](#)

139. Document ID: CN 1655814 A, WO 2003038043 A2, US 20030133932 A1, AU 2002360307 A1, KR 2004070349 A, KR 2004081422 A, EP 1506285 A2, NO 200402266 A, JP 2005519871 W, ZA 200403573 A, CN 1630516 A, MX 2004004184 A1

L7: Entry 139 of 160

File: DWPI

Aug 17, 2005

DERWENT-ACC-NO: 2003-421518

DERWENT-WEEK: 200572

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TITLE: Inducing apoptosis and inhibiting proliferation of target cells expressing DR5, by contacting the target cell with an antibody that binds TNF-related apoptosis-inducing ligand receptor DR5 and with therapeutic agents

INVENTOR: BUCHSBAUM, D J; ICHIKAWA, K ; KIMBERLY, R P ; KOOPMAN, W J ; LOBUGLIO, A F ; OSHUMI, J ; ZHOU, T ; OHSUMI, J

PRIORITY-DATA: 2002US-391478P (June 24, 2002), 2001US-346402P (November 1, 2001), 2002US-

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>CN 1655814 A</u>	August 17, 2005		000	A61K039/395
<u>WO 2003038043 A2</u>	May 8, 2003	E	274	C12N000/00
<u>US 20030133932 A1</u>	July 17, 2003		000	A61K038/21
<u>AU 2002360307 A1</u>	May 12, 2003		000	C12N000/00
<u>KR 2004070349 A</u>	August 7, 2004		000	C07K016/28
<u>KR 2004081422 A</u>	September 21, 2004		000	A61K039/395
<u>EP 1506285 A2</u>	February 16, 2005	E	000	C12N001/00
<u>NO 200402266 A</u>	July 23, 2004		000	C07K016/28
<u>JP 2005519871 W</u>	July 7, 2005		188	A61K039/395
<u>ZA 200403573 A</u>	August 31, 2005		276	C12N000/00
<u>CN 1630516 A</u>	June 22, 2005		000	A61K031/337
<u>MX 2004004184 A1</u>	February 1, 2005		000	C12N000/00000

INT-CL (IPC): A61 K 31/337; A61 K 31/404; A61 K 31/4745; A61 K 31/519; A61 K 31/522;  
A61 K 31/525; A61 K 31/56; A61 K 31/704; A61 K 31/7072; A61 K 38/16; A61 K 38/21; A61 K 39/395;  
A61 K 41/00; A61 K 45/00; A61 K 45/06; A61 P 1/00; A61 P 3/10; A61 P 5/14; A61 P 7/02;  
A61 P 7/04; A61 P 7/06; A61 P 9/10; A61 P 11/06; A61 P 13/12; A61 P 15/00; A61 P 17/00;  
A61 P 17/06; A61 P 19/02; A61 P 21/04; A61 P 25/00; A61 P 29/00; A61 P 31/04; A61 P 31/12;  
A61 P 33/06; A61 P 35/00; A61 P 37/02; A61 P 37/06; A61 P 37/08; C07 H 21/04; C07 K 16/28;  
C12 N 0/00; C12 N 0/00000; C12 N 1/00; C12 P 21/06

ABSTRACTED-PUB-NO: WO2003038043A

## BASIC-ABSTRACT:

NOVELTY - Selectively inducing apoptosis in- and inhibiting (M1) proliferation of target cells expressing DR5, comprising contacting the cell with an antibody that specifically binds tumor necrosis factor (TNF)- related apoptosis-inducing ligand (TRAIL) receptor DR5, where the antibody, in its soluble form, has in vivo and in vitro apoptosis-inducing activity in the cell expressing DR5, and contacting the cell with one or more therapeutic agents, is new.

## DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

(1) treating (M2) a subject having an inflammatory or autoimmune disease, by administering an antibody that specifically binds a TRAIL receptor DR5, and administering a therapeutic agent; and

(2) a composition comprising the above mentioned antibody.

ACTIVITY - Nephrotropic; Antiarteriosclerotic; Cardiant; Antiasthmatic; Antiallergic; Antiinflammatory; Antidiabetic; Hemostatic; Neuroprotective; Antiinfertility; Immunosuppressive; Dermatological; Antianemic; Antirheumatic; Antiarthritic; Thyromimetic.

MECHANISM OF ACTION - Inducer of apoptosis; Inhibitor of target cell proliferation; Antibody therapy.

Induction of apoptosis in vitro in malignant cells. To determine whether TRA-8 induced apoptosis in transformed cells in vitro, all DR5-positive tumor cells were examined for their susceptibility to apoptosis induced either by TRA-8 or TRAIL. Target cells (1 multiply 10<sup>3</sup> per well) were cultured in 69-well plates in the presence of the indicated concentrations of soluble TRAIL plus crosslinker or TRA-8. Cell viability was determined using ATPLite kit, the MTT Cell proliferation/viability kit and staining of dead cells and analyzed by flow cytometry. At end of culture, cells were stained with 10 micro g/ml PI and PI negative cells were gated as viable cells. For analysis of condensed nuclei of hepatocytes, cells were stained with 10 ng/ml Hoechst 33352 and analyzed by flow cytometry. The TRA-8 antibody was capable of inducing apoptosis in the majority of the malignant human glioma cell lines (9/10), in 2 of the 3 prostate cancer cell lines, and in 2 of the 4 DR5-positive hematopoietic cell lines. It did not induce apoptosis in the Molt-4 cell line, which expressed almost undetectable cell surface levels of DR5. The levels of susceptibility of the cells to TRA-8-mediated apoptosis varied

considerably among the cell lines.

USE - M1 is useful for inducing apoptosis in target cell and inhibiting proliferation of target cell expressing DR5, where the target cell is an abnormally proliferating synovial cells (e.g. rheumatoid arthritis synovial cell), activated immune cell (e.g. activated lymphocyte), neutrophil, or virally infected cell. M2 is useful for treating a subject having inflammatory and autoimmune diseases. The inflammatory or autoimmune disease are selected from systemic lupus erythematosus, Hashimoto's disease, rheumatoid arthritis, graft-versus-host disease, Sjogren's syndrome, pernicious anemia, Addison disease, scleroderma, Goodpasture's syndrome, Crohn's disease, autoimmune hemolytic anemia, sterility, myasthenia gravis, multiple sclerosis, Basedow's disease, thrombotic, thrombocytopenia, thrombopenia purpura, insulin dependent diabetes mellitus, allergy, asthma, atopic disease, arteriosclerosis, myocarditis, cardiomyopathy, glomerular nephritis, and hypoplastic anemia. (All claimed.)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMPC	Drawn Desc	Image
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140. Document ID: US 20020150985 A1

L7: Entry 140 of 160

File: DWPI

Oct 17, 2002

DERWENT-ACC-NO: 2003-198287

DERWENT-WEEK: 200617

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TITLE: New Apo-2 polypeptides and polynucleotides, useful for inducing apoptosis in mammalian cells, in vivo or ex vivo gene therapy, in quantitative diagnostic assays, or in generating antibodies against Apo-2

INVENTOR: ADAMS, C W; ASHKENAZI, A J ; CHUNTHARAPAI, A ; KIM, K J

PRIORITY-DATA: 2001US-0052798 (November 2, 2001), 1997US-046615P (May 15, 1997), 1998US-074119P (February 9, 1998), 1998US-0079029 (May 14, 1998)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>US 20020150985 A1</u>	October 17, 2002		064	C07H021/04

INT-CL (IPC): A61 K 39/395; C07 H 21/04; C07 K 14/705; C12 N 5/06; C12 P 21/02

ABSTRACTED-PUB-NO: US20020150985A

BASIC-ABSTRACT:

NOVELTY - An isolated Apo-2 polypeptide having a fully defined sequence of 411 amino acids (I) given in the specification or having at least 80% amino acid sequence identity with (I), is new.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for:

- (1) an isolated extracellular domain sequence of Apo-2 polypeptide comprising amino acid residues 54-182 of (I);
- (2) an isolated death domain sequence of Apo-2 polypeptide comprising amino acid residues 324-391 of (I);
- (3) a chimeric molecule comprising the Apo-2 polypeptide above or the extracellular domain sequence of (1) fused to a heterologous amino acid sequence;
- (4) an isolated nucleic acid comprising a DNA encoding the Apo-2 polypeptide, the extracellular domain sequence or the death domain sequence defined above;
- (5) a vector comprising the nucleic acid;

- (6) a host cell comprising the vector;
- (7) producing an Apo-2 polypeptide by culturing the host cell for the expression of the Apo-2 polypeptide and recovering the expressed Apo-2 polypeptide from the culture;
- (8) an Apo-2 polypeptide obtained or obtainable by expressing the polypeptide encoded by the cDNA insert under ATCC deposit accession number 209021;
- (9) a non-human transgenic animal that contains cells that express DNA encoding Apo-2 polypeptide;
- (10) a non-human knockout animal which contains cells having an altered gene encoding Apo-2 polypeptide;
- (11) an antibody that specifically binds to an Apo-2 polypeptide;
- (12) a hybridoma cell line which produces the antibody of (11);
- (13) a chimeric molecule comprising the antibody of (11) fused to a heterologous amino acid sequence;
- (14) a dimeric molecule comprising the Apo-2 antibody and a heterologous antibody;
- (15) a homodimeric molecule comprising a first Apo-2 antibody and a second Apo-2 antibody;
- (16) isolated nucleic acids comprising a DNA encoding an antibody defined above;
- (17) a vector comprising the nucleic acid;
- (18) a host cell comprising the vector;
- (19) producing an Apo-2 antibody by culturing the host cell to express the DNA;
- (20) a composition comprising the antibody of (11) and a carrier;
- (21) inducing apoptosis in mammalian cancer cells by exposing mammalian cancer cells to an Apo-2 agonistic antibody or to an agent that activates Apo-2; and
- (22) an article of manufacture comprising a container and a composition consisting of an Apo-2 polypeptide or Apo-2 antibody contained within the container.

ACTIVITY - None given.

MECHANISM OF ACTION - Gene therapy.

USE - The Apo-2 polypeptide is useful for inducing apoptosis in mammalian cells, in vivo or ex vivo gene therapy, in quantitative diagnostic assays, as a control against samples containing unknown quantities of Apo-2, in generating antibodies, in affinity purification techniques, and in competitive-type receptor binding assays when labeled with, for instance, radioiodine, enzymes, or fluorophores. Nucleic acids encoding Apo-2 may be used as a diagnostic for tissue-specific typing.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMPC	Drawn Desc	Image
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141. Document ID: CN 1553807 A, US 20020150552 A1, AU 2002339919 A1, JP 2005503796 W

L7: Entry 141 of 160

File: DWPI

Dec 8, 2004

DERWENT-ACC-NO: 2003-198262

DERWENT-WEEK: 200517

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TITLE: Composition useful for treating cancer, viral infection and inflammatory conditions such as asthma, comprises a mixture of human cytokines produced by a human cell line which

overexpresses a cytokine regulatory factor

INVENTOR: BROWNING, L; LAU, A S ; OSSINA, N ; WAN, W H

PRIORITY-DATA: 2001US-0952843 (September 11, 2001), 2000US-0660468 (September 12, 2000), 2002US-0105100 (March 21, 2002)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>CN 1553807 A</u>	December 8, 2004		000	A61K038/19
<u>US 20020150552 A1</u>	October 17, 2002		031	A61K038/19
<u>AU 2002339919 A1</u>	March 24, 2003		000	A61K038/21
<u>JP 2005503796 W</u>	February 10, 2005		135	C12N015/09

INT-CL (IPC): A61 K 9/14; A61 K 38/00; A61 K 38/19; A61 K 38/20; A61 K 38/21; A61 K 38/22; A61 L 9/04; A61 P 31/12; A61 P 35/00; C07 K 14/52; C07 K 14/525; C07 K 14/53; C07 K 14/535; C07 K 14/54; C12 N 15/09; C12 P 21/00; C12 P 21/02

ABSTRACTED-PUB-NO: US20020150552A

BASIC-ABSTRACT:

NOVELTY - Composition (I) comprising mixture of human cytokines produced by culturing human cell line capable of producing mixture of cytokines, where the cell line overexpresses cytokine regulatory factor (CF) or anti-apoptotic protein (AP), treating CF- or AP-overexpressing cell line to effect enhanced production of mixture of cytokines, and collecting cytokines produced by the cultured CF- or AP-overexpressing cell line.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for producing (M1) a mixture of human cytokines in a cell culture, which involves culturing a human cell line capable of producing the mixture of cytokines, selecting or modifying the cultured human cell line where a CF is overexpressed by the cell line, treating the cultured, CF-overexpressing cell line to effect cytokine production, and collecting the cytokines produced by the cultured treated cell line.

ACTIVITY - Virucide; Cytostatic; Antiinflammatory; Anti-HIV; Antiasthmatic; Antiallergic; Antirheumatic; Antiarthritic.

No biological data given.

MECHANISM OF ACTION - Immune response modulator.

USE - (I) is useful in cancer treatment, where the cytokines produced include two or more cytokines chosen from interleukin-2 (IL-2), IL-12, IL-15, interferon-alpha (IFN- alpha ), IFN-beta , IFN- gamma , IFN- omega , tumor necrosis factor-alpha (TNF- alpha ), natural killer enhancing factor (NKEF), natural killer cell stimulatory factor (NKSF), TNF-related-apoptosis-inducing-ligand (TRAIL) and granulocyte macrophage colony-stimulating factor (GM-CSF). (I) is useful in treating viral infection, where the cytokines produced include two or more cytokines chosen from IFN- alpha , IFN- beta , IFN- gamma , IFN- omega , transforming growth factor beta (TGF- beta ), IL-8, IL-12 and GM-CSF. (I) is also useful for treating an inflammatory condition, where the cytokines produced include two or more cytokines chosen from IL-4, IL-5, IL-6, IL-10, IFN- beta , IFN- gamma and TGF- beta (claimed). (I) is useful for treating cancer including solid tumors, melanomas, leukemias, and other types of cancers or neoplasms; viral infection including infection by human immunodeficiency virus (HIV), hepatitis viruses such as hepatitis B virus (HBV), hepatitis C virus (HCV) and other human-pathogenic viruses; and inflammation including asthma, allergies, and rheumatoid arthritis.

ADVANTAGE - (M1) provides increased production of the mixture of human cytokines in cell culture.

142. Document ID: US 6444640 B1

L7: Entry 142 of 160

File: DWPI

Sep 3, 2002

DERWENT-ACC-NO: 2002-749312

DERWENT-WEEK: 200281

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TITLE: Composition useful for treating cancer, comprises DR5 binding ligand such as tumor necrosis factor related apoptosis inducing ligand, and DNA damaging agent

INVENTOR: CAVENEY, W; HUANG, S ; NAGANE, M

PRIORITY-DATA: 1999US-0409336 (September 30, 1999)

PATENT-FAMILY:

PUB-NO <u>US 6444640 B1</u>	PUB-DATE September 3, 2002	LANGUAGE	PAGES 012	MAIN-IPC A61K038/00
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INT-CL (IPC): A61 K 38/00

ABSTRACTED-PUB-NO: US 6444640B

BASIC-ABSTRACT:

NOVELTY - A composition (I) useful for treating a condition, comprises a DR5 binding ligand such as tumor necrosis factor related apoptosis inducing ligand (TRAIL), and a DNA damaging agent sufficient to affect apoptosis, is new.

ACTIVITY - Cytostatic. A total of 21 mice were inoculated, subcutaneously, with 2 multiply 10 to the power of 6 human glioblastoma cell U87MG, which were allowed to form established tumors. 13 days after the inoculation, tumors were established. Mice were then divided into four different treatment groups. The first group received only the drug vehicle (4 animals), the second group (4 animals) received 500 micro gram of tumor necrosis factor related apoptosis inducing ligand (TRAIL) per day, the third group (4 animals), received 3 mg/kg of cis-diamminedichloroplatinum (CDDP) per day, and the last group (9 animals), were dosed with both drugs. For the control, a combination of bacterial lysate and normal saline was used, to correspond to the drug combination. The results showed that four of the mice who received the combination therapy showed complete tumor regression, and one showed progressive regression.

MECHANISM OF ACTION - None given.

USE - (I) is useful for treating a subject with a condition that requires affecting apoptosis, where the condition is cancer, preferably glioma, by administering an amount of (I) to the subject sufficient to affect apoptosis (claimed). (I) is useful for treating conditions involving rapid cellular turnover, and for treating neoplasias and diseases involving proliferative lesions and glioblastomas.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMPC	Drawn Desc	Image
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143. Document ID: US 20020102706 A1

L7: Entry 143 of 160

File: DWPI

Aug 1, 2002

DERWENT-ACC-NO: 2002-697823

DERWENT-WEEK: 200472

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TITLE: Novel isolated Apo-2DcR polypeptide useful for modulating apoptosis in mammalian cells

INVENTOR: ASHKENAZI, A J; BAKER, K P ; CHUNTHARAPAI, A ; GURNEY, A ; KIM, K J ; WOOD, W I

PRIORITY-DATA: 1997US-049911P (June 18, 1997), 1998US-0096500 (June 12, 1998), 2001US-0887879 (June 21, 2001)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>US 20020102706 A1</u>	August 1, 2002		058	C12N009/64

INT-CL (IPC): C12 N 5/06; C12 N 9/64; C12 P 21/02

ABSTRACTED-PUB-NO: US20020102706A

BASIC-ABSTRACT:

NOVELTY - Isolated Apo-2DcR polypeptide (I) having at least about 80% amino acid sequence identity with native sequence Apo-2DcR polypeptide comprising amino acid residues 1-259 of a sequence (S1) of 259 amino acids fully defined in the specification, is new.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for:

- (1) an isolated native sequence Apo-2DcR polypeptide (II) comprising amino acid residues 1-259 of S1 or comprising amino acid residues -40 to 259 of a sequence (S2) of 299 amino acids fully defined in the specification;
- (2) an isolated extracellular domain sequence (III) of Apo-2DcR polypeptide comprising amino acid residues 1-161 of S1 or comprising amino acid residues 1 to X, where X is any one of amino acid residues 161-236 of S1;
- (3) a chimeric molecule (IV) comprising (I) or the extracellular domain sequence of Apo-2DcR polypeptide comprising amino acid residues 1-161 of S1, fused to a heterologous amino acid sequence;
- (4) an antibody (V) which binds to (I) or to an isolated extracellular domain sequence of Apo-2DcR polypeptide comprising amino acid residues 1-161 of S1;
- (5) a hybridoma cell line (VI) which produces (V);
- (6) an isolated nucleic acid (VII) comprising a nucleotide sequence encoding (I) or an isolated extracellular domain sequence (III) of Apo-2DcR polypeptide comprising amino acid residues 1-161 of S1;
- (7) a vector (VIII) comprising (VII);
- (8) a host cell (IX) comprising (VIII);
- (9) a non-human transgenic animal (X) which contains cells that express nucleic acid encoding Apo-2DcR polypeptide;
- (10) a non-human knockout animal (XI) which contains cells having an altered gene encoding Apo-2DcR polypeptide; and
- (11) a composition (XII) comprising (I), an isolated extracellular domain sequence of Apo-2DcR polypeptide comprising amino acid residues 1-161 of S1, (V) and a carrier.

ACTIVITY - None given.

MECHANISM OF ACTION - Modulator of apoptosis.

The capability of inducing cell death (apoptosis) by Apo-2 was determined. Hela cells or human 293 cells were transiently transfected by calcium phosphate precipitation or electroporation with a pRK5 vector or pRK5-based plasmids encoding Apo-2 and/or CrmA. Apoptosis was assessed for 24 hours after transfection by morphology. The result showed that Apo-2 transfected 293 cells underwent marked apoptosis.

USE - (I) is useful for modulating apoptosis in mammalian cells, by exposing the cells to Apo-2DcR polypeptide, where the cells are further exposed to Apo-2 ligand. (I) and (V) are useful for manufacturing an article comprising a container and a composition contained within the

container, where the composition includes Apo-2DcR polypeptide or Apo-2DcR antibodies. The article of manufacture further comprises instructions for using the Apo-2DcR polypeptide or Apo-2DcR antibodies in vivo or ex vivo. (VII) is useful effectively producing Apo-2DcR polypeptide, by culturing (IX) (all claimed). (IV) is therapeutically useful to inhibit Apo-2L activities. The Apo-2DcR antibodies are useful therapeutically, which cross-react with other receptors for Apo-2 ligand useful to block excessive apoptosis (in neurodegenerative diseases) or to block potentially autoimmune/inflammatory effects. Apo-2DcR antibodies are also useful in immunohistochemistry staining assays or diagnostic assays for Apo-2DcR, e.g. detecting its expression in specific cells, tissues or serum, and for the affinity purification of Apo-2DcR from recombinant cell culture or natural sources. (VII) is useful as a diagnostic for tissue-specific typing and for the preparation of Apo-2DcR. (VII) is useful to generate either transgenic or knock out animals which, in turn useful in the development and screening of therapeutically useful reagent and also to clone genomic DNA encoding Apo-2DcR or an appropriate sequence of it. Apo-2DcR are useful in quantitative diagnostic assays as a control against the samples containing unknown quantities of Apo-2DcR. Apo-2DcR preparations are useful in generating antibodies, as standards in assays for Apo-2DcR, in affinity purification techniques, and in competitive-type receptor binding assays. Apo-2DcR are employed to identified alternative forms of Apo-2DcR and modified forms of Apo-2DcR such as Apo-2DcR-IgG chimeric molecules, and are useful as immunogen in producing anti-Apo-2DcR antibodies.

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">KWMC</a>	<a href="#">Drawn Desc</a>	<a href="#">Image</a>
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144. Document ID: CN 1527721 A, WO 200222848 A2, EP 1318834 A2, JP 2004529851 W

L7: Entry 144 of 160

File: DWPI

Sep 8, 2004

DERWENT-ACC-NO: 2002-351894

DERWENT-WEEK: 200478

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TITLE: Composition for treating viral infection, cancer and inflammatory disorders, comprises mixture of human cytokines produced by cytokine regulatory factor and/or anti-apoptotic protein overexpressing cell line

INVENTOR: BROWNING, L; LAU, A S ; OSSINA, N ; WAN, W H

PRIORITY-DATA: 2000US-0660468 (September 12, 2000)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>CN 1527721 A</u>	September 8, 2004		000	A61K038/19
<u>WO 200222848 A2</u>	March 21, 2002	E	062	C12P021/00
<u>EP 1318834 A2</u>	June 18, 2003	E	000	A61K038/19
<u>JP 2004529851 W</u>	September 30, 2004		119	C07K014/52

INT-CL (IPC): A61 K 38/00; A61 K 38/19; A61 K 38/21; A61 P 29/00; A61 P 31/12; A61 P 35/00; C07 K 14/52; C12 P 21/00; C12 P 21/02

ABSTRACTED-PUB-NO: WO 200222848A

BASIC-ABSTRACT:

NOVELTY - A composition comprising a mixture of human cytokines (CKs) produced by culturing a human cell line capable of producing a mixture of CKs, where the cell line is capable of overexpressing a cytokine regulatory factor (CRF) or an anti-apoptotic protein, treating the cell line to enhance production of a mixture of CKs, and collecting the CKs produced by the cultured, CRF or anti-apoptotic-overexpressing cell line, is new.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for producing (M) a mixture of human CKs in cell culture, by culturing a human cell line capable of producing the mixture of human CKs, selecting or modifying the cultured human cell line, where a CRF is overexpressed by the cell line, treating the cultured, CRF-overexpressing cell line to effect CK production, and

collecting the CKs produced by the cultured, treated cell line.

ACTIVITY - Cytostatic; Virucide; Antiinflammatory.

MECHANISM OF ACTION - Regulator of immune and inflammatory response; Inhibitor of apoptosis. No supporting data is given.

USE - The composition is useful for treating cancer, viral infection and an inflammatory condition. (M) is useful for producing a mixture of human CKs such as two or more interleukin-2 (IL-2), IL-12, IL-15, interferon-alpha (IFN-alpha), IFN-beta, IFN-gamma, IFN-omega, tumor necrosis factor-alpha, natural killer enhancing factor (NKEF), natural killer cell stimulatory factor (NKSF), tumor necrosis factor (TNF)-related-apoptosis-inducing-ligand (TRAIL) and granulocyte macrophage colony-stimulating factor (GM-CSF), for use in cancer treatment, IFN-alpha, IFN-beta, IFN-gamma, IFN-omega, transforming growth factor-beta (TGF-beta), IL-8, IL-12, GM-CSF, for use in treating viral infection, and IL-4, IL-5, IL-6, IL-10, IFN-beta, IFN-gamma and TGF-beta for use in treating inflammatory conditions (claimed).

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KOMC](#) | [Drawn Desc](#) | [Image](#)

145. Document ID: JP 2004509078 W, WO 200209755 A2, AU 200179055 A, EP 1303293 A2, US 20040005314 A1

L7: Entry 145 of 160

File: DWPI

Mar 25, 2004

DERWENT-ACC-NO: 2002-268997

DERWENT-WEEK: 200422

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TITLE: Use of CPT-11 which is a chemotherapeutic agent of the topoisomerase I inhibitor class, and Apo-2 ligand receptor agonist for enhancing apoptosis in mammalian cells, or for treating cancer in a mammal

INVENTOR: ESCANDON, E; FOX, J A ; KELLEY, S K ; XIANG, H

PRIORITY-DATA: 2000US-221256P (July 27, 2000), 2003US-0333712 (January 23, 2003)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>JP 2004509078 W</u>	March 25, 2004		148	A61K038/00
<u>WO 200209755 A2</u>	February 7, 2002	E	084	A61K039/395
<u>AU 200179055 A</u>	February 13, 2002		000	A61K039/395
<u>EP 1303293 A2</u>	April 23, 2003	E	000	A61K038/17
<u>US 20040005314 A1</u>	January 8, 2004		000	A61K039/395

INT-CL (IPC): A61 K 31/4745; A61 K 38/00; A61 K 38/17; A61 K 39/395; A61 K 45/00; A61 N 5/00; A61 P 35/00; A61 P 37/00; A61 P 43/00; C12 N 15/09; A61 K 31:47; A61 K 39/395; A61 K 31:47; A61 K 38/17

ABSTRACTED-PUB-NO: WO 200209755A

BASIC-ABSTRACT:

NOVELTY - Use of CPT-11 (a chemotherapeutic agent of the topoisomerase I inhibitor class) (I) and Apo-2 ligand receptor agonist (II) for enhancing (M) apoptosis in mammalian cells, or for treating cancer in a mammal. The mammalian cells are exposed to (I) about 6-72 hours prior to exposure to (II).

ACTIVITY - Cytostatic.

Athymic nude mice were injected subcutaneously with 5 million COLO205 colon carcinoma cells and the tumors allowed to grow to about 120 mm<sup>3</sup>. Tumor-bearing mice were randomized into 4 groups

at 9 mice per group and treated with either vehicle (20 mM Tris, 8% Trehalose, 0.01 Tween-20, pH 7.5), Apo-2L (30 mg/kg/day on days 0-4 and 7-11), or CPT-11 (80 mg/kg/day on days 0, 4, and 8), or a combination of Apo-2L (30 mg/kg/day on days 0-4 and 7-11 plus CPT-11 (80 mg/kg/day on days 0, 4 and 8). Tumor volumes were determined at the indicated days over 34 days. Apo-2L or CPT-11, each suppressed tumor growth during the treatment period, although tumor growth resumed several days later in all 9 animals of each group. In contrast, the combination of Apo-2L with CPT-11 caused substantial tumor shrinkage, resulting in complete tumor elimination in 8 out of 9 animals in the combination treatment group. The results indicated that combinations of Apo-2 ligand and CPT-11 treatment synergistically inhibited growth of cancer cells *in vivo*.

MECHANISM OF ACTION - Inducer of apoptosis; Apo-2L receptor agonist; upregulates DR4 or DR5 receptor in mammalian cells (claimed).

USE - (M) is useful for enhancing apoptosis and treating cancer in patients having cancer (claimed).

ADVANTAGE - Combined Apo2L and CPT-11 treatment led to degradation of p21 and to upregulation of DR4 and DR5 receptors, directing cancer cells towards an apoptotic pathway rather than cell cycle arrest and possible DNA repair, thus providing enhanced anti-tumor activity.

[ Full | Title | Citation | Front | Review | Classification | Date | Reference | **Searches** | **Attachments** | Claims | KIIC | Draw Desc | Image ]

[ Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS ]

Term	Documents
(3 OR 5).PGPB,USPT,JPAB,DWPI.	160
(L3 OR L5 ).PGPB,USPT,JPAB,DWPI.	160

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Search Results - Record(s) 146 through 160 of 160 returned.

146. Document ID: US 6342369 B1

Using default format because multiple data bases are involved.

L7: Entry 146 of 160

File: DWPI

Jan 29, 2002

DERWENT-ACC-NO: 2002-224941

DERWENT-WEEK: 200617

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TITLE: New nucleic acids encoding an Apo-2 ligand, useful for activating or stimulating apoptosis in cancer cells, thus especially useful in the treatment of cancer, or in enhancing immune-mediated cell death

INVENTOR: ASHKENAZI, A J

PRIORITY-DATA: 1998US-0079029 (May 14, 1998), 1997US-046615P (May 15, 1997), 1998US-074119P (February 9, 1998)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>US 6342369 B1</u>	January 29, 2002		068	C12P021/02

INT-CL (IPC): C07 H 21/04; C12 P 21/02

147. Document ID: AU 2001259366 B2, WO 200183560 A1, AU 200159366 A, NO 200205253 A, EP 1287035 A1, CZ 200203917 A3, US 20030190687 A1, US 20030198637 A1, KR 2003055177 A, CN 1440424 A, JP 2004502409 W, ZA 200209230 A, BR 200110547 A, HU 200400951 A2, MX 2002010823 A1, IN 200201603 P3, NZ 522881 A, JP 2005232187 A, NO 200504145 A

L7: Entry 147 of 160

File: DWPI

Sep 8, 2005

DERWENT-ACC-NO: 2002-049338

DERWENT-WEEK: 200568

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TITLE: Novel antibody specific for tumor necrosis factor-related apoptosis-inducing ligand, useful for inhibiting cell proliferation in cancer

INVENTOR: ICHIKAWA, K; KIMBERLY, R P ; KOOPMAN, W J ; ZHOU, T ; BUCHSBAUM, D J ; LOBUGLIO, A F

PRIORITY-DATA: 2000US-201344P (May 2, 2000), 2003US-0275180 (March 5, 2003)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>AU 2001259366 B2</u>	September 8, 2005		000	C07K016/00
<u>WO 200183560 A1</u>	November 8, 2001	E	228	C07K016/00
<u>AU 200159366 A</u>	November 12, 2001		000	
<u>NO 200205253 A</u>	December 18, 2002		000	C07K016/28

<u>EP 1287035 A1</u>	March 5, 2003	E	000	C07K016/00
<u>CZ 200203917 A3</u>	May 14, 2003		000	C07K016/24
<u>US 20030190687 A1</u>	October 9, 2003		000	A61N005/00
<u>US 20030198637 A1</u>	October 23, 2003		000	A61K039/395
<u>KR 2003055177 A</u>	July 2, 2003		000	A61K039/395
<u>CN 1440424 A</u>	September 3, 2003		000	C07K016/00
<u>JP 2004502409 W</u>	January 29, 2004		342	C12N015/02
<u>ZA 200209230 A</u>	May 26, 2004		444	A01N000/00
<u>BR 200110547 A</u>	June 22, 2004		000	C07K016/00
<u>HU 200400951 A2</u>	July 28, 2004		000	C07K016/00
<u>MX 2002010823 A1</u>	May 1, 2004		000	A01N043/04
<u>IN 200201603 P3</u>	December 11, 2004	E	000	C07K016/00
<u>NZ 522881 A</u>	May 27, 2005		000	C07K016/00
<u>JP 2005232187 A</u>	September 2, 2005		109	C07K016/28
<u>NO 200504145 A</u>	December 18, 2002		000	A61K039/395

, MX 2002010823 A1 , IN 200201603 P3 , NZ 522881 A INT-CL (IPC): A01 N 0/00; A01 N 43/04;  
A61 K 31/337; A61 K 31/4745; A61 K 31/522; A61 K 31/525; A61 K 31/704; A61 K 31/7048;  
A61 K 38/14; A61 K 39/395; A61 K 45/06; A61 K 48/00; A61 N 5/00; A61 P 1/04; A61 P 3/10;  
A61 P 5/18; A61 P 7/06; A61 P 9/10; A61 P 13/12; A61 P 15/00; A61 P 17/00; A61 P 21/04;  
A61 P 25/00; A61 P 29/00; A61 P 35/00; A61 P 37/08; A61 P 43/00; C07 H 21/02; C07 K 16/00;  
C07 K 16/24; C07 K 16/28; C07 K 16/30; C07 K 16/46; C07 K 19/00; C12 N 1/15; C12 N 1/19;  
C12 N 1/21; C12 N 5/00; C12 N 5/10; C12 N 5/12; C12 N 15/00; C12 N 15/02; C12 N 15/09;  
C12 N 15/13; C12 N 15/63; G01 N 33/574

ABSTRACTED-PUB-NO: WO 200183560A

BASIC-ABSTRACT:

NOVELTY - An antibody which recognizes a tumor necrosis factor (TNF)-related apoptosis-inducing ligand (TRAIL) receptor DR5, is new. The antibody has apoptosis-inducing activity to a cell expressing DR5 in vivo.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (1) a monoclonal antibody produced by mouse-mouse hybridoma TRA-8 having ATCC accession number PTA-1428;
- (2) inhibiting cell proliferation comprising exposing cells expressing DR5 to an antibody capable of binding to it;
- (3) a mobilized antibody interacting with a tumor necrosis factor ligand receptor selected from Dr5, Dr5, DrD1, DrR2 or OPG, and inducing apoptosis in a cell expressing the receptor;
- (4) a mobilized antibody capable of selectively binding an agonistic or antagonistic tumor necrosis factor ligand receptor epitope;
- (5) process of treating an apoptosis related disease, comprising exposing a target tissue expressing the apoptosis related disease to the novel antibody, or antibody of (1);
- (6) a fusion protein comprising:
  - (a) an antigenic TRAIL receptor amino acid sequence having at least ten bases; and coupled to
  - (b) an immunoglobulin protein capable of eliciting an immune response within a subject;
- (7) gene therapy, comprising:
  - (a) transfecting target cells with a vector comprising an expressible TRAIL receptor nucleic acid sequence;
  - (b) expressing on the cells a TRAIL receptor encoded for by the TRAIL receptor nucleic acid sequence; and

- (c) exposing the cells to an antibody selective for binding the TRAIL receptor;
- (8) a nucleotide or amino acid sequence comprising a coding sequence for a selectively heavy chain immunoglobulin of an antibody capable of recognizing DR5;
- (9) a nucleotide, or amino acid sequence comprising a coding sequence for TRA-8 light chain immunoglobulin of an antibody capable of recognizing DR5;
- (10) an antibody selective for human DR5, comprising a humanized heavy chain immunoglobulin and a humanized light chain immunoglobulin;
- (11) an amino acid sequence comprising a coding sequence for humanized heavy or light chain immunoglobulin of an antibody of (10);
- (12) a nucleotide sequence comprising a coding sequence for humanized light chain immunoglobulin of an antibody of (10);
- (13) a vector, comprising the nucleotide sequence of (8) and/or (9), and a regulatory sequence operably linked to it;
- (14) a plasmid comprising a nucleic acid sequence encoding a heavy or light chain humanized immunoglobulin of an antibody of (10);
- (15) a host cell transformed with the vector of (13), or the plasmid of (14);
- (16) producing a humanized DR5 antibody, comprising:
- (a) transforming a host cell with a vector encoding at least one of a humanized immunoglobulin light or heavy chain, and a vector encoding the light or heavy chain if either is absent from the first vector; and
- (b) incubating the transformed host;
- (17) process for inhibiting cell proliferation comprising contacting a target cell with a humanized DR5 antibody;
- (18) a commercial kit for inducing cell death, comprising a humanized antibody selective for human DR5 packaged in a contained, along with instructions for use as a therapeutic against expressing DR5;
- (19) process for increasing NF<sub>k</sub>B levels in a cell, comprising administering a amount of a DR5 selectively recognizing antibody; and
- (20) an antibody which recognizes a TRAIL receptor DR5, and which does not recognize TRAIL receptors DR4, DcR1, or DcR2.

ACTIVITY - Cytostatic.

MECHANISM OF ACTION - TRAIL receptor agonist.

USE - For preparing a therapeutic for selective apoptosis of abnormal or dysregulated cells, and for inhibiting cell proliferation in a cell, preferably a human breast, ovary, colon, hematopoietic, prostate, lymphatic, lung, glioma or liver cancer cell. A therapeutic agent may also be administered, preferably paclitaxel, taxol, cycloheximide, carboplatin, chlorambucil, cisplatin, colchicine, cyclophosphamide, daunorubicin, dactinomycin, diethylstilbestrol, doxorubicin, etoposide, 5-fluorouracil, floxuridine, melphalan, methotrexate, mitomycin, 6-mercaptopurine, teniposide, 6-thioguanine, vincristine, or vinblasine. (All claimed). The antibody is used to treat an autoimmune disease, systemic lupus erythematosus, Hashimoto's disease, rheumatoid arthritis, graft-versus-host disease, Sjogren's syndrome, Chron's disease, pernicious anemia, Addison disease, scleroderma, Goodpasture's syndrome, autoimmune hemolytic anemia, sterility, myasthenia gravis, multiple sclerosis, Basedow's disease, thrombopenia purpura, insulin-dependent diabetes mellitus, allergy, atopic disease, arteriosclerosis, myocarditis, cardiomyopathy, glomerular nephritis, hypoplastic anemia, rejection after organ transplantation, and numerous malignancies of lung, prostate, liver, ovary, lymphatic or breast tissue.

148. Document ID: EP 1616882 A2, WO 200119861 A2, AU 200074943 A, EP 1226161 A2, JP 2003510253 W

L7: Entry 148 of 160

File: DWPI

Jan 18, 2006

DERWENT-ACC-NO: 2001-266005

DERWENT-WEEK: 200606

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TITLE: Inducing apoptosis in mammalian cells for treating cancer, comprises exposing mammalian cells or cancer cells expressing Apo-2 receptor, to Apo-2 agonist antibody

INVENTOR: ASHKENAZI, A J; CHUNTHERAPAI, A ; KIM, K J ; ASHKENAZI, A ; KIM, K

PRIORITY-DATA: 1999US-0396710 (September 15, 1999)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>EP 1616882 A2</u>	January 18, 2006	E	000	C07K016/18
<u>WO 200119861 A2</u>	March 22, 2001	E	090	C07K014/00
<u>AU 200074943 A</u>	April 17, 2001		000	C07K014/00
<u>EP 1226161 A2</u>	July 31, 2002	E	000	C07K014/00
<u>JP 2003510253 W</u>	March 18, 2003		127	C07K016/18

INT-CL (IPC): A61 K 39/395; A61 P 35/00; C07 K 14/00; C07 K 16/18; C07 K 16/28; C12 N 5/06; C12 N 15/02; C12 N 15/09; C12 P 21/08

ABSTRACTED-PUB-NO: WO 200119861A

BASIC-ABSTRACT:

NOVELTY - Inducing apoptosis in mammalian cells (I) expressing Apo-2 receptor, and treating cancer, comprising exposing (I) or mammalian cancer cells to an Apo-2 agonist antibody (II) is new.

ACTIVITY - Cytostatic.

MECHANISM OF ACTION - Inducer of apoptosis. Apo-2 antibodies were tested for its activity to induce Apo-2 mediated 9D cell apoptosis. 9D cells were incubated with varying concentrations of antibodies in 100 mu l complete RPMI media at 4 deg. C for 15 minutes. The cells were then incubated for 5 minutes at 37 deg. C with or without 10 mu g of goat anti-mouse IgG Fc antibody in 300 mu l of complete RPMI. Apoptosis of the cells was determined by FACS after staining with FITC-annexin V binding to phosphatidylserine. The 3F11.39.7 antibody (in the absence of the goat anti-mouse IgG Fc) induced apoptosis in the 9D cells as compared to the control antibodies. Agonistic activity, however, was enhanced by Apo-2 receptor cross-linking in the presence of the goat anti-mouse IgG Fc. This enhanced apoptosis by the combination of antibodies is comparable to the apoptotic activity of Apo-2L in 9D cells.

USE - (II) is useful for inducing apoptosis and for treating mammalian cancer e.g., lung cancer, colon cancer, and glioma (claimed).

149. Document ID: US 6046048 A

L7: Entry 149 of 160

File: DWPI

Apr 4, 2000

**TITLE:** New isolated monoclonal antibodies having antigen specificity for Apo-2 ligand, e.g. 2G6, 2E11 or 5C2, useful for detecting the expression of Apo-2 ligand serum, and for treating diseases associated with increased apoptosis

**INVENTOR:** ASHKENAZI, A J; CHUNTHARAPAI, A ; KIM, K J

**PRIORITY-DATA:** 1996US-009755P (January 9, 1996), 1997US-0780496 (January 8, 1997)

**PATENT-FAMILY:**

<b>PUB-NO</b>	<b>PUB-DATE</b>	<b>LANGUAGE</b>	<b>PAGES</b>	<b>MAIN-IPC</b>
<u>US 6046048 A</u>	April 4, 2000		046	C12N005/16

**INT-CL (IPC):** C12 N 5/16

**ABSTRACTED-PUB-NO:** US 6046048A

**BASIC-ABSTRACT:**

**NOVELTY -** The hybridoma cell lines deposited under American Type Culture Collection Accession Number ATCC HB-12256, HB-12257, HB-12258 and HB-12259, are new.

**DETAILED DESCRIPTION - INDEPENDENT CLAIMS** are also included for the following:

- (1) Apo-2 ligand monoclonal antibodies produced by the novel cell lines; and
- (2) isolated Apo-2 ligand monoclonal antibodies which:

(a) bind an Apo-2 ligand polypeptide comprising residues 114-281 of a 281 amino acid sequence (I), fully defined in the specification; and

(b) bind to the same Apo-2 ligand epitope as the monoclonal antibodies 1D1, 2G6, 2E11, or 5C2, produced by the hybridoma cell line deposited under ATCC Accession Numbers HB-12257, HB-12259, HB-12256 and HB-12258, respectively.

**ACTIVITY -** Antiapoptotic; anti-necrotic; cytostatic.

**MECHANISM OF ACTION -** Apo-2 ligand activity blocker. The 9D cells treated with the Apo-2 ligand showed 50% apoptotic cells above the untreated, control cells. The 9D cells treated with Apo-2 ligand plus the 2E11, 5C2, 2G6 or 1D1 antibodies showed 0%, 6%, 26% and 48% apoptotic cells above the untreated control, respectively. These results show that the 5C2, 2E11 and 2G6 antibodies are blocking antibodies while the 1D1 antibody is a non-blocking antibody. The most potent activity was observed with the 5C2 antibody. The antigen specificities of the 4 antibodies were also tested in an enzyme linked immunosorbant assay (ELISA). Microtiter wells were coated with 2  $\mu$ g/ml lymphotoxin, or Apo-2 ligand. Monoclonal antibodies 1D1, 2G6, 2E11 and 5C2 were tested at a concentration of 10  $\mu$ g/ml. The results of the assay showed that monoclonal antibodies 2G6, 2E11 and 5C2 were specific for Apo-2 ligand.

**USE -** The Apo-2 ligand antibodies may be used in diagnostic assays for Apo-2 ligand, e.g. detecting its expression in specific cells, tissues, or serum. The antibodies may also be employed as therapeutics. For instance, anti-Apo-2 ligand antibodies which block Apo-2 ligand activity, like Apo-2 ligand-induced apoptosis, may be employed to treat pathological conditions or diseases associated with increased apoptosis. They are also useful for the affinity purification of Apo-2 ligand from recombinant cell culture or natural sources. The Apo-2 ligand itself may be used to treat diseases e.g. cancer, by inducing apoptosis in cells.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMPC	Drawn Desc	Image
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DERWENT-ACC-NO: 2000-097520

DERWENT-WEEK: 200464

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**TITLE:** Preparation of antibodies using 2 or more different antigens, used for producing antibodies against Apo-2 ligand receptors useful for inducing apoptosis, particularly in cancer cells

**INVENTOR:** ASHKENAZI, A J; CHUNTHARAPAI, A ; KIM, K J

**PRIORITY-DATA:** 1998US-0096637 (June 12, 1998), 2003AU-0204560 (June 5, 2003)

**PATENT-FAMILY:**

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>AU 2003204560 A1</u>	July 24, 2003		000	C07K016/00
<u>WO 9964461 A2</u>	December 16, 1999	E	057	C07K016/00
<u>AU 9945611 A</u>	December 30, 1999		000	C07K016/00
<u>EP 1086138 A2</u>	March 28, 2001	E	000	C07K016/28
<u>JP 2002517223 W</u>	June 18, 2002		098	C12N015/02

**INT-CL (IPC):** A61 K 39/00; A61 K 39/395; A61 P 35/00; C07 K 16/00; C07 K 16/28; C12 N 1/15; C12 N 1/19; C12 N 1/21; C12 N 5/10; C12 N 15/02; C12 N 15/85; C12 P 21/08; G01 N 33/531; C12 P 21/08; C12 R 1:91

**ABSTRACTED-PUB-NO:** WO 9964461A

**BASIC-ABSTRACT:**

**NOVELTY -** Method (I) for producing antibodies by immunizing an animal with at least two different antigens (ag) is new.

**DETAILED DESCRIPTION -** Method (I) for producing antibodies, comprises:

- (a) immunizing an animal with at least two different antigens, to generate polyclonal antibodies (PAbs) against each antigen in the animal;
- (b) preparing monoclonal antibodies (MAbs) using immune cells of the above animal; and
- (c) screening the MAbs to identify one or more MAbs which bind to each antigen.

**INDEPENDENT CLAIMS** are also included for the following:

- (1) a method as in (A) further comprising isolating nucleic acid encoding a MAb selected from step (c) as in (A) and producing the MAb or a variant in a host cell transformed with nucleic acid encoding the MAb or a variant;
- (2) an antibody which specifically cross-reacts with 2 or more different Apo-2L receptors;
- (3) an antibody having the biological characteristics of a MAb selected from 3H1.18.10, 3H3.18.5 and 3D5.1.10;
- (4) a hybridoma cell line which produces a MAb selected from 3H1.18.10, 3H3.14.5 and 3D5.1.10;
- (5) isolated nucleic acid comprising DNA encoding an antibody as in (2);
- (6) a vector comprising a nucleic acid as in (5);
- (7) a host cell comprising a vector as in (6); and
- (8) method of inducing apoptosis in mammalian cancer cells comprising exposing the cells to (an agonistic version of) (2).

ACTIVITY - Immunomodulatory, cytostatic, neuroprotective.

MECHANISM OF ACTION - Apo-2L receptor (ant)agonists.

USE - The antibodies obtained can be used for therapy. The Apo-2L receptor antibodies can be used for enhancing immune-mediated cell death in cells expressing Apo-2L receptors. Agonistic antibodies which specifically cross-react with 2 or more different Apo-2L receptors can be used for inducing apoptosis in mammalian cancer cells (claimed). Antagonistic antibodies can be used for blocking apoptosis, e.g. in neurodegenerative disease, or to block potential autoimmune/inflammatory effects of Apo-2 resulting from NF- approx. kB activation. The antibodies can also be used for detection, diagnosis and affinity purification.

ADVANTAGE - The method can reduce the number of animals that need to be immunized and sacrificed in order to make 2 or more Mabs with differing antigen-binding specificities. Sera titers from animals immunized with a mixture of antigens are similar to those achieved in animals immunized with a single antigen.

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn Desc](#) | [Image](#)

151. Document ID: WO 9954737 A1, AU 9879408 A

L7: Entry 151 of 160

File: DWPI

Oct 28, 1999

DERWENT-ACC-NO: 2000-052707

DERWENT-WEEK: 200014

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TITLE: Determining granzyme in a liquid sample

INVENTOR: HACK, C E; SPAENY-DEKKING, L

PRIORITY-DATA: 1998US-0062528 (April 17, 1998)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>WO 9954737 A1</u>	October 28, 1999	E	039	G01N033/573
<u>AU 9879408 A</u>	November 8, 1999		000	G01N033/573

INT-CL (IPC): C07 K 16/44; G01 N 33/573; G01 N 33/577

ABSTRACTED-PUB-NO: WO 9954737A

BASIC-ABSTRACT:

NOVELTY - A method for determining a granzyme in a liquid sample, comprises subjecting the liquid sample to an immunoassay for detecting the presence or measuring the level of the granzyme. The immunoassay uses a monoclonal antibody capable of specifically binding the granzyme. The granzyme are granule associated enzymes of the granule-exocytosis pathway of T-cell or natural killer cell induced cell apoptosis.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for: (1) a granzyme-specific monoclonal antibody capable of binding the granzyme in non-denatured state; (2) a monoclonal antibody capable of specifically binding a soluble complex of a granzyme and an inhibitor of the granzyme; (3) an immunoassay kit for determining a granzyme in a liquid sample, which kit comprises a monoclonal antibody capable of specifically binding the granzyme; and (4) a method for diagnosing activation of the immune system in an animal, comprising: (a) preparing a liquid sample of a body fluid; and (b) subjecting the liquid sample to an immunoassay to detect the presence or measure the level of a granzyme.

USE - The level of granzyme, or the level of the complex of granzyme and granzyme inhibitor, in the sample is used as a marker for degranulation of cytotoxic T-lymphocytes (CTL) and/or natural killer (NK) cells, and thus as a marker for activation of the immune system (all claimed).

152. Document ID: US 20040180049 A1, WO 9937684 A1, AU 9923382 A, EP 1053256 A1, JP 2002500877 W, AU 2003213463 A1, US 20040120947 A1

L7: Entry 152 of 160

File: DWPI

Sep 16, 2004

DERWENT-ACC-NO: 1999-469117

DERWENT-WEEK: 200461

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TITLE: New antibodies to death receptor 4, used for modulating activities associated with Apo-2 ligand, particularly apoptosis, useful for treating diseases and pathological conditions, e.g. cancer

INVENTOR: CHUNTHARAPAI, A; KIM, K J ; ASHKENAZI, A ; DODGE, K ; ASHKENAZI, A J

PRIORITY-DATA: 1998US-072481P (January 26, 1998), 2003AU-0213463 (July 11, 2003), 1999US-0237299 (January 25, 1999), 1999US-0322875 (May 28, 1999), 2000US-0584166 (May 25, 2000), 2003US-0660128 (September 11, 2003), 2003US-0630329 (July 30, 2003)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>US 20040180049 A1</u>	September 16, 2004		000	A61K039/395
<u>WO 9937684 A1</u>	July 29, 1999	E	041	C07K016/28
<u>AU 9923382 A</u>	August 9, 1999		000	C07K016/28
<u>EP 1053256 A1</u>	November 22, 2000	E	000	C07K016/28
<u>JP 2002500877 W</u>	January 15, 2002		050	C12N015/09
<u>AU 2003213463 A1</u>	August 14, 2003		000	C07K016/28
<u>US 20040120947 A1</u>	June 24, 2004		000	A61K039/395

INT-CL (IPC): A61 K 39/395; A61 P 35/00; C07 K 16/28; C07 K 16/30; C07 K 16/46; C12 N 5/06; C12 N 5/10; C12 N 5/20; C12 N 15/09; C12 N 15/13; C12 P 21/08

ABSTRACTED-PUB-NO: WO 9937684A

BASIC-ABSTRACT:

NOVELTY - An antibody (A) which specifically binds to death receptor 4 (DR4) is new.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (1) a hybridoma cell line which produces (A);
- (2) an isolated nucleic acid encoding (A);
- (3) a method of inducing apoptosis in mammalian cells comprising exposing mammalian cells to a DR4 agonist antibody;
- (4) a dimeric molecule comprising a DR4 antibody linked to a heterologous immunoglobulin;
- (5) the hybridoma cell line deposited under American type culture collection number ATCC HB-12454;
- (6) the hybridoma cell line deposited under American type culture collection number ATCC HB-12455; and
- (7) an article of manufacture comprising a container and a composition contained within the container, where the composition includes a DR4 antibody.

USE - The DR4 antibodies may be agonistic, antagonistic or blocking antibodies. The DR4 antibodies are capable of modulating biological activities associated with Apo-2 ligand, in particular, apoptosis, and thus are useful in the treatment of various diseases and pathological conditions, including cancer. The antibodies can also be used for detection and diagnosis.

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KUMC](#) | [Drawn Desc](#) | [Image](#)

153. Document ID: WO 9936535 A1, AU 9923251 A, EP 1045906 A1, JP 2002508962 W, US 6740739 B1, AU 2003204487 A1

L7: Entry 153 of 160

File: DWPI

Jul 22, 1999

DERWENT-ACC-NO: 1999-444397

DERWENT-WEEK: 200532

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TITLE: A novel cytokine, designated Apo-2 ligand, useful for inducing apoptosis in mammalian cancer cells

INVENTOR: ASHKENAZI, A J; KELLEY, R F ; O'CONNELL, M P ; PITTI, R M ; SCHWALL, R H ; O'CONNEL, M T ; SCHWALL, R A

PRIORITY-DATA: 1998US-0060533 (April 15, 1998), 1998US-0007886 (January 15, 1998), 2000US-0582450 (June 26, 2000), 2003AU-0204487 (June 2, 2003)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>WO 9936535 A1</u>	July 22, 1999	E	086	C12N015/12
<u>AU 9923251 A</u>	August 2, 1999		000	C12N015/12
<u>EP 1045906 A1</u>	October 25, 2000	E	000	C12N015/12
<u>JP 2002508962 W</u>	March 26, 2002		126	C12N015/09
<u>US 6740739 B1</u>	May 25, 2004		000	C07K014/525
<u>AU 2003204487 A1</u>	June 26, 2003		000	C12N015/12

INT-CL (IPC): A61 K 38/00; A61 K 38/17; A61 K 39/385; A61 P 35/00; A61 P 43/00; C07 K 14/475; C07 K 14/52; C07 K 14/525; C07 K 14/705; C07 K 16/24; C07 K 16/28; C12 N 1/19; C12 N 1/21; C12 N 5/10; C12 N 15/09; C12 N 15/12; C12 N 15/62

ABSTRACTED-PUB-NO: WO 9936535A

BASIC-ABSTRACT:

NOVELTY - A novel cytokine, designated Apo-2 ligand (Apo-2L), is new.

DETAILED DESCRIPTION - An isolated soluble Apo-2L comprises or consists (essentially) of amino acid residues 91-281 (preferably 92-281) of a 281 amino acid sequence (given in the specification).

INDEPENDENT CLAIMS are also included for the following:

- (1) an isolated Apo-2L (Apo-2L(a)) having at least about 80% amino acid sequence identity with Apo-2L as above;
- (2) a chimeric polypeptide comprising Apo-2L fused to a heterologous polypeptide sequence (preferably a tag polypeptide sequence);
- (3) an isolated nucleic acid sequence (I) comprising DNA encoding Apo-2L;
- (4) a vector comprising (I);
- (5) a host cell comprising the vector of (4);

(6) production of Apo-2L comprising culturing the host cell of (5) and recovering Apo-2L from the host cell culture; and

(7) a soluble Apo-2L produced by expressing in CHO cells a gene encoding a full-length human Apo-2L.

ACTIVITY - Cytostatic; Apoptotic.

MECHANISM OF ACTION - Cytokine; Anti-Apo-2L Antibody.

USE - Apo-2L is useful for inducing apoptosis in mammalian cancer cells (claimed). This is useful for the treatment of cancer. Apo-2L can be used to induce apoptosis for pathological conditions characterized by decreased levels of apoptosis, e.g. autoimmune disorders like lupus and immune-mediated glomerular nephritis and cancer. Apo-2L and its nucleic acid coding sequence can also be used in quantitative and screening diagnostic techniques. Anti-Apo-2L antibodies can be used to treat diseases associated with increased apoptosis.

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn Desc](#) | [Image](#)

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154. Document ID: WO 9910484 A1, AU 9884850 A, EP 1009817 A1, JP 2001513994 W, AU 2003200137 A1

L7: Entry 154 of 160

File: DWPI

Mar 4, 1999

DERWENT-ACC-NO: 1999-254218

DERWENT-WEEK: 200477

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TITLE: A new polypeptide, designated RTD

INVENTOR: ASHKENAZI, A J; GURNEY, A

PRIORITY-DATA: 1997US-0918874 (August 26, 1997), 2003AU-0200137 (January 15, 2003)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>WO 9910484 A1</u>	March 4, 1999	E	032	C12N015/00
<u>AU 9884850 A</u>	March 16, 1999		000	C12N015/00
<u>EP 1009817 A1</u>	June 21, 2000	E	000	C12N015/00
<u>JP 2001513994 W</u>	September 11, 2001		089	C12N015/09
<u>AU 2003200137 A1</u>	April 17, 2003		000	C12N015/00

INT-CL (IPC): A01 K 67/027; A61 K 38/00; C07 K 14/705; C07 K 16/28; C07 K 19/00; C12 N 1/15; C12 N 1/19; C12 N 1/21; C12 N 5/10; C12 N 15/00; C12 N 15/09; C12 P 21/02; C12 P 21/08; C12 Q 1/02; C12 P 21/08; C12 R 1:91

ABSTRACTED-PUB-NO: WO 9910484A

BASIC-ABSTRACT:

NOVELTY - An isolated native RTD polypeptide (I), defined in the specification as having 386 amino acids, is new.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the following:

- (1) isolated RTD polypeptide comprising residues 56-386 of sequence (I);
- (2) isolated native RTD polypeptide having 80 %, preferably 95 % identity to sequence (I);
- (3) isolated extracellular domain sequences of RTD polypeptide comprising:

- (a) residues 56-212 of (I); or
- (b) fragments of (a) which retain biological activity of a native RTD polypeptide;
- (4) a chimeric molecule comprising an RTD polypeptide fused to a heterologous amino acid sequence;
- (5) an antibody which specifically binds to an RTD polypeptide;
- (6) isolated nucleic acid comprising a sequence encoding (I) or the domain sequence of (3);
- (7) a vector comprising the above nucleic acid;
- (8) a host cell comprising the above vector;
- (9) a process for producing an RTD polypeptide by culture of the above cell;
- (10) a non-human transgenic animal containing cells that express nucleic acid encoding RTD polypeptide;
- (11) a non-human knockout animal containing cells having an altered gene encoding RTD polypeptide;
- (12) a method of modulating apoptosis in mammalian cells by exposing them to RTD polypeptide, particularly where they are also exposed to Apo-2 ligand; and
- (13) an article of manufacture comprising a container and a composition within the container, where the composition includes RTD polypeptide or RTD antibodies.

ACTIVITY - Inhibitory;

Human 293 cells ( $1 \times 10^6$ ) were transfected by calcium phosphate precipitation with 4  $\mu$ g pRK5 or pRK5-based plasmids encoding RTD (clone DNA35663 or clone DNA 35664) or DR5 along with 1  $\mu$ g pRK5 encoding green fluorescent protein. The cells were treated 24 hours later with 0.5  $\mu$ g/ml Apo-2 ligand, stained with 10  $\mu$ g/ml Hoechst dye 33342, and double positive cells were scored for apoptotic morphology under a fluorescent microscope. Results showed that cells transfected with either of the RTD cDNA clones were significantly less sensitive to Apo-2 ligand-induced apoptosis.

MECHANISM OF ACTION - Ligand-binding;

RTD, DR5 or TNFR1 immunoadhesin (2.5  $\mu$ g) was incubated with  $^{125}$ I-labelled soluble Apo-2 ligand in the absence or presence of 1  $\mu$ g unlabeled ligand for 1 hour at room temperature. Complexes were precipitated by protein A sepharose and resolved by electrophoresis under reducing conditions on a 4-20% gradient SDS polyacrylamide gel. Results showed that RTD and DR5 but not the TNFR1 immunoadhesin co-precipitated with labeled ligand, and that this co-precipitation was blocked by excess unlabeled ligand. BIACORE analysis showed that RTD immunoadhesin bound to Apo-2 ligand, but not to other apoptosis-inducing family members TNF-alpha, lymphotoxin-alpha and Fas ligand.

USE - RTD can be employed therapeutically to modulate apoptosis and/or NF-kappaB activation by Apo-2 ligand or another ligand that RTD binds to in mammalian cells (disclosed). RTD polypeptide and nucleic acid sequences can also be used as a diagnostic tool for tissue-specific typing, in quantitative diagnostic assays, to generate antibodies for immunoassays and affinity purification techniques, or in competitive-type receptor binding assays (disclosed).

ADVANTAGE - None given.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMPC	Drawn Desc	Image
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155. Document ID: US 20020161196 A1, WO 9909165 A1, AU 9887844 A, EP 1003864 A1, US 20010029030 A1, JP 2001514888 W, US 6417328 B1, US 20020115154 A1, US 20020161195 A1

**TITLE:** Newly isolated polynucleotide encoding a mammalian TRAIL receptor protein - useful for screening for (ant)agonists that modulate the apoptotic activity mediated by DR5 or TRAIL-R3 proteins

**INVENTOR:** ALNEMRI, E S

**PRIORITY-DATA:** 1997US-055906P (August 15, 1997), 1998US-0134618 (August 14, 1998), 2002US-0067615 (February 4, 2002), 2002US-0076754 (February 12, 2002), 2002US-0076773 (February 12, 2002)

**PATENT-FAMILY:**

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>US 20020161196 A1</u>	October 31, 2002		000	C07K014/705
<u>WO 9909165 A1</u>	February 25, 1999	E	071	C12N015/12
<u>AU 9887844 A</u>	March 8, 1999		000	C12N015/12
<u>EP 1003864 A1</u>	May 31, 2000	E	000	C12N015/12
<u>US 20010029030 A1</u>	October 11, 2001		000	G01N033/53
<u>JP 2001514888 W</u>	September 18, 2001		082	C12N015/09
<u>US 6417328 B1</u>	July 9, 2002		000	C07K014/715
<u>US 20020115154 A1</u>	August 22, 2002		000	C12Q001/68
<u>US 20020161195 A1</u>	October 31, 2002		000	C07K014/705

**INT-CL (IPC):** A01 K 67/00; A01 K 67/027; A01 K 67/33; A01 N 43/04; A61 K 31/70; C07 H 21/04;  
C07 K 14/705; C07 K 14/715; C07 K 16/28; C12 N 1/15; C12 N 1/19; C12 N 1/21; C12 N 5/06;  
C12 N 5/10; C12 N 15/09; C12 N 15/11; C12 N 15/12; C12 N 15/63; C12 N 15/85; C12 P 21/02;  
C12 P 21/06; C12 P 21/08; C12 Q 1/68; G01 N 33/15; G01 N 33/50; G01 N 33/53; G01 N 33/566;  
G01 N 33/567

**ABSTRACTED-PUB-NO:** US 6417328B

**BASIC-ABSTRACT:**

**NOVELTY** - An isolated polynucleotides (I) - (III) encoding a mammalian TRAIL receptor selected from DR5 and TRAIL-R3 proteins (including splice variant cDNA sequences, and active fragments), is new.

**DETAILED DESCRIPTION** - An isolated polynucleotide encoding a mammalian TRAIL receptor, comprises: (a) DNA encoding one of amino acid sequences (I) - (III); (b) DNA encoding biologically active DR5 or TRAIL-R3, and which hybridizes to the DNA of (a) under moderate stringency; (c) degenerate DNA with respect to (a) and (b) encoding biologically active DR5 or TRAIL-R3; and (d) splice variant cDNA sequences of any of (a) - (c).

**INDEPENDENT CLAIMS** are also included for the following: (1) a vector containing the polynucleotide; (2) recombinant cells containing the polynucleotide; (3) an antisense oligonucleotide that specifically binds to mRNA encoded by the polynucleotide; (4) an isolated mammalian protein (I) - (III) encoded by the polynucleotide; (5) production of the protein selected from a group comprising DR5, TRAIL-R3, and their splice variants; (6) an antibody that specifically binds to the protein; and (7) a transgenic non-human mammal expressing an exogenous polynucleotide encoding the protein.

**ACTIVITY** - Antigenic; apoptotic. Apoptosis activity of DR5 and TRAIL-R3 proteins was tested using the mammalian double expression vector pRSC ( Akporiaye et al., (1997) BioTech. 22:68 ). The figure showed that expression of DR5 (not TRAIL-R3) induces apoptosis in human MCF7 cells.

**MECHANISM OF ACTION** - Inducer (DR5 only); antagonist (TRAIL-R3 only). Transient expression of TRAIL-R3, which does not normally contain a death domain, was incapable of inducing apoptosis in MCF7 cells (See figure).

**USE** - The antibody is useful for detecting mammalian DR5 or TRAIL-R3 proteins in a sample

(claimed). Recombinant cells are useful in bioassays for screening for (ant)agonists of DR5 or TRAIL-R3 proteins (claimed). (Ant)agonists identified by the assay are useful for modulating the apoptotic activity mediated by DR5 or TRAIL-R3 proteins (claimed).

Apoptosis related conditions which are treated in this way, include cancer (e.g. lymphomas and carcinomas), autoimmune diseases (e.g. systemic lupus erythematosus and immune-mediated glomerulonephritis), viral infections (e.g. herpes virus, poxvirus and adenovirus), degenerative disorders (e.g. Alzheimer's disease and Parkinson's disease), amyotrophic lateral sclerosis, retinitis pigmentosa, cerebellar degeneration, myelodysplastic syndromes (e.g. aplastic anemia) and ischemic injury (e.g. myocardial infarction and stroke).

The polynucleotides can also be used to treat these diseases. The antisense oligonucleotide forms a composition that is useful for inhibiting expression of a human DR5 or TRAIL-R3 protein (claimed).

ABSTRACTED-PUB-NO:

US20010029030A EQUIVALENT-ABSTRACTS:

NOVELTY - An isolated polynucleotides (I) - (III) encoding a mammalian TRAIL receptor selected from DR5 and TRAIL-R3 proteins (including splice variant cDNA sequences, and active fragments), is new.

DETAILED DESCRIPTION - An isolated polynucleotide encoding a mammalian TRAIL receptor, comprises: (a) DNA encoding one of amino acid sequences (I) - (III); (b) DNA encoding biologically active DR5 or TRAIL-R3, and which hybridizes to the DNA of (a) under moderate stringency; (c) degenerate DNA with respect to (a) and (b) encoding biologically active DR5 or TRAIL-R3; and (d) splice variant cDNA sequences of any of (a) - (c).

INDEPENDENT CLAIMS are also included for the following: (1) a vector containing the polynucleotide; (2) recombinant cells containing the polynucleotide; (3) an antisense oligonucleotide that specifically binds to mRNA encoded by the polynucleotide; (4) an isolated mammalian protein (I) - (III) encoded by the polynucleotide; (5) production of the protein selected from a group comprising DR5, TRAIL-R3, and their splice variants; (6) an antibody that specifically binds to the protein; and (7) a transgenic non-human mammal expressing an exogenous polynucleotide encoding the protein.

ACTIVITY - Antigenic; apoptotic. Apoptosis activity of DR5 and TRAIL-R3 proteins was tested using the mammalian double expression vector pRSC ( Akporiaye et al., (1997) BioTech. 22:68 ). The figure showed that expression of DR5 (not TRAIL-R3) induces apoptosis in human MCF7 cells.

MECHANISM OF ACTION - Inducer (DR5 only); antagonist (TRAIL-R3 only). Transient expression of TRAIL-R3, which does not normally contain a death domain, was incapable of inducing apoptosis in MCF7 cells (See figure).

USE - The antibody is useful for detecting mammalian DR5 or TRAIL-R3 proteins in a sample (claimed). Recombinant cells are useful in bioassays for screening for (ant)agonists of DR5 or TRAIL-R3 proteins (claimed). (Ant)agonists identified by the assay are useful for modulating the apoptotic activity mediated by DR5 or TRAIL-R3 proteins (claimed).

Apoptosis related conditions which are treated in this way, include cancer (e.g. lymphomas and carcinomas), autoimmune diseases (e.g. systemic lupus erythematosus and immune-mediated glomerulonephritis), viral infections (e.g. herpes virus, poxvirus and adenovirus), degenerative disorders (e.g. Alzheimer's disease and Parkinson's disease), amyotrophic lateral sclerosis, retinitis pigmentosa, cerebellar degeneration, myelodysplastic syndromes (e.g. aplastic anemia) and ischemic injury (e.g. myocardial infarction and stroke).

The polynucleotides can also be used to treat these diseases. The antisense oligonucleotide forms a composition that is useful for inhibiting expression of a human DR5 or TRAIL-R3 protein (claimed).

NOVELTY - An isolated polynucleotides (I) - (III) encoding a mammalian TRAIL receptor selected from DR5 and TRAIL-R3 proteins (including splice variant cDNA sequences, and active fragments), is new.

DETAILED DESCRIPTION - An isolated polynucleotide encoding a mammalian TRAIL receptor, comprises: (a) DNA encoding one of amino acid sequences (I) - (III); (b) DNA encoding

biologically active DR5 or TRAIL-R3, and which hybridizes to the DNA of (a) under moderate stringency; (c) degenerate DNA with respect to (a) and (b) encoding biologically active DR5 or TRAIL-R3; and (d) splice variant cDNA sequences of any of (a) - (c).

INDEPENDENT CLAIMS are also included for the following: (1) a vector containing the polynucleotide; (2) recombinant cells containing the polynucleotide; (3) an antisense oligonucleotide that specifically binds to mRNA encoded by the polynucleotide; (4) an isolated mammalian protein (I) - (III) encoded by the polynucleotide; (5) production of the protein selected from a group comprising DR5, TRAIL-R3, and their splice variants; (6) an antibody that specifically binds to the protein; and (7) a transgenic non-human mammal expressing an exogenous polynucleotide encoding the protein.

ACTIVITY - Antigenic; apoptotic. Apoptosis activity of DR5 and TRAIL-R3 proteins was tested using the mammalian double expression vector pRSC ( Akporiaye et al., (1997) BioTech. 22:68 ). The figure showed that expression of DR5 (not TRAIL-R3) induces apoptosis in human MCF7 cells.

MECHANISM OF ACTION - Inducer (DR5 only); antagonist (TRAIL-R3 only). Transient expression of TRAIL-R3, which does not normally contain a death domain, was incapable of inducing apoptosis in MCF7 cells (See figure).

USE - The antibody is useful for detecting mammalian DR5 or TRAIL-R3 proteins in a sample (claimed). Recombinant cells are useful in bioassays for screening for (ant)agonists of DR5 or TRAIL-R3 proteins (claimed). (Ant)agonists identified by the assay are useful for modulating the apoptotic activity mediated by DR5 or TRAIL-R3 proteins (claimed).

Apoptosis related conditions which are treated in this way, include cancer (e.g. lymphomas and carcinomas), autoimmune diseases (e.g. systemic lupus erythematosus and immune-mediated glomerulonephritis), viral infections (e.g. herpes virus, poxvirus and adenovirus), degenerative disorders (e.g. Alzheimer's disease and Parkinson's disease), amyotrophic lateral sclerosis, retinitis pigmentosa, cerebellar degeneration, myelodysplastic syndromes (e.g. aplastic anemia) and ischemic injury (e.g. myocardial infarction and stroke).

The polynucleotides can also be used to treat these diseases. The antisense oligonucleotide forms a composition that is useful for inhibiting expression of a human DR5 or TRAIL-R3 protein (claimed).

US20020115154A

NOVELTY - An isolated polynucleotides (I) - (III) encoding a mammalian TRAIL receptor selected from DR5 and TRAIL-R3 proteins (including splice variant cDNA sequences, and active fragments), is new.

DETAILED DESCRIPTION - An isolated polynucleotide encoding a mammalian TRAIL receptor, comprises: (a) DNA encoding one of amino acid sequences (I) - (III); (b) DNA encoding biologically active DR5 or TRAIL-R3, and which hybridizes to the DNA of (a) under moderate stringency; (c) degenerate DNA with respect to (a) and (b) encoding biologically active DR5 or TRAIL-R3; and (d) splice variant cDNA sequences of any of (a) - (c).

INDEPENDENT CLAIMS are also included for the following: (1) a vector containing the polynucleotide; (2) recombinant cells containing the polynucleotide; (3) an antisense oligonucleotide that specifically binds to mRNA encoded by the polynucleotide; (4) an isolated mammalian protein (I) - (III) encoded by the polynucleotide; (5) production of the protein selected from a group comprising DR5, TRAIL-R3, and their splice variants; (6) an antibody that specifically binds to the protein; and (7) a transgenic non-human mammal expressing an exogenous polynucleotide encoding the protein.

ACTIVITY - Antigenic; apoptotic. Apoptosis activity of DR5 and TRAIL-R3 proteins was tested using the mammalian double expression vector pRSC ( Akporiaye et al., (1997) BioTech. 22:68 ). The figure showed that expression of DR5 (not TRAIL-R3) induces apoptosis in human MCF7 cells.

MECHANISM OF ACTION - Inducer (DR5 only); antagonist (TRAIL-R3 only). Transient expression of TRAIL-R3, which does not normally contain a death domain, was incapable of inducing apoptosis in MCF7 cells (See figure).

USE - The antibody is useful for detecting mammalian DR5 or TRAIL-R3 proteins in a sample (claimed). Recombinant cells are useful in bioassays for screening for (ant)agonists of DR5 or

TRAIL-R3 proteins (claimed). (Ant)agonists identified by the assay are useful for modulating the apoptotic activity mediated by DR5 or TRAIL-R3 proteins (claimed).

Apoptosis related conditions which are treated in this way, include cancer (e.g. lymphomas and carcinomas), autoimmune diseases (e.g. systemic lupus erythematosus and immune-mediated glomerulonephritis), viral infections (e.g. herpes virus, poxvirus and adenovirus), degenerative disorders (e.g. Alzheimer's disease and Parkinson's disease), amyotrophic lateral sclerosis, retinitis pigmentosa, cerebellar degeneration, myelodysplastic syndromes (e.g. aplastic anemia) and ischemic injury (e.g. myocardial infarction and stroke).

The polynucleotides can also be used to treat these diseases. The antisense oligonucleotide forms a composition that is useful for inhibiting expression of a human DR5 or TRAIL-R3 protein (claimed).

WO 9909165A

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Draw Desc](#) | [Clip Img](#) | [Ima](#)

156. Document ID: WO 9902653 A1, AU 9884003 A

L7: Entry 156 of 160

File: DWPI

Jan 21, 1999

DERWENT-ACC-NO: 1999-120857

DERWENT-WEEK: 199910

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TITLE: A new nucleic acid encodes a p53-induced protein (Killer) - which induces apoptosis and is useful in the diagnosis and treatment of neoplastic diseases

INVENTOR: EL-DEIRY, W S

PRIORITY-DATA: 1998US-077661P (March 11, 1998), 1997US-052305P (July 11, 1997), 1997US-054710P (August 4, 1997), 1997US-060473P (September 30, 1997), 1998US-077526P (March 11, 1998), 1998US-077628P (March 11, 1998)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>WO 9902653 A1</u>	January 21, 1999	E	044	C12N005/00
<u>AU 9884003 A</u>	February 8, 1999		000	C12N005/00

INT-CL (IPC): C12 N 5/00; C12 N 15/00; C12 N 15/10; C12 N 15/12; C12 N 15/63

ABSTRACTED-PUB-NO: WO 9902653A

BASIC-ABSTRACT:

A new isolated nucleic acid (N1), comprises an open reading frame of part or all of a gene located on human chromosome 8p21, which encodes part or all of a mammalian, p53-inducible, apoptosis-mediating protein, comprising amino-terminal extracellular receptor, transmembrane, and death domains.

Also claimed are:

(1) a vector for mammalian cell transformation, comprising (N1); (2) a mammalian cell transformed with the vector;

(3) an oligonucleotide of 10-100 nucleotides, which specifically hybridises with a predetermined portion of (N1);

(4) an isolated nucleic acid molecule having a sequence which: (a) is the 1139bp single-stranded sequence (I) fully defined in the specification, or (b) is an allelic variant or natural mutant of sequence (I), or (c) hybridises with part or all of sequence I or its complement and encodes a polypeptide substantially the same as part or all of that encoded by

sequence I, or (d) encodes part or all of the 411 amino acid sequence (II) fully defined in the specification;

(5) a protein produced by expression of (N1);

(6) antibodies immunospecific for the above protein;

(7) a protein produced by expression of one of the nucleic acids defined in (4);

(8) antibodies immunospecific for the above protein;

(9) a non-human genetically engineered mammal, preferably a mouse, which is unable to produce a functional protein normally produced by expression of (N1)

USE - The nucleic acid molecule, it's encoded signal transduction protein and antibodies of the invention are useful in the diagnosis and treatment of neoplastic diseases (disclosed). The invention is also useful to produce animal model systems.

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Services](#) | [Attachment](#) | [Claims](#) | [KMC](#) | [Drawn Desc](#) | [Image](#)

157. Document ID: WO 9851793 A1, AU 9877963 A, EP 981618 A1, JP 2001511653 W, AU 740858 B, AU 200214720 A, US 20030017161 A1, AU 2005203183 A1

L7: Entry 157 of 160

File: DWPI

Nov 19, 1998

DERWENT-ACC-NO: 1999-045228

DERWENT-WEEK: 200560

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TITLE: Human Apo-2 polypeptide inducing apoptosis - useful to treat conditions linked with decreased apoptosis e.g. cancer, and produce antibodies to increase or decrease apoptosis

INVENTOR: ADAMS, C W; ASHKENAZI, A J ; CHUNTHARAPAI, A ; KIM, K J

PRIORITY-DATA: 1998US-0020746 (February 9, 1998), 1997US-0857216 (May 15, 1997), 2002AU-0014720 (January 30, 2002), 2002US-0207295 (July 29, 2002), 2005AU-0203183 (July 21, 2005)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>WO 9851793 A1</u>	November 19, 1998	E	134	C12N015/12
<u>AU 9877963 A</u>	December 8, 1998		000	C12N015/12
<u>EP 981618 A1</u>	March 1, 2000	E	000	C12N015/12
<u>JP 2001511653 W</u>	August 14, 2001		148	C12N015/09
<u>AU 740858 B</u>	November 15, 2001		000	C12N015/12
<u>AU 200214720 A</u>	March 14, 2002		000	A61K038/17
<u>US 20030017161 A1</u>	January 23, 2003		000	A61K039/395
<u>AU 2005203183 A1</u>	August 18, 2005		000	C12N015/12

INT-CL (IPC): A01 K 67/027; A61 K 38/00; A61 K 38/17; A61 K 39/395; A61 P 35/00; A61 P 43/00; C07 K 14/715; C07 K 16/24; C07 K 16/28; C07 K 16/42; C07 K 16/44; C07 K 16/46; C07 K 19/00; C12 N 1/19; C12 N 1/21; C12 N 5/10; C12 N 15/09; C12 N 15/12; C12 N 15/62; C12 P 21/02; C12 P 21/08

ABSTRACTED-PUB-NO: WO 9851793A

BASIC-ABSTRACT:

Polypeptide having at least 80 % identity to 411 amino acid sequence (I) given in the specification for Apo-2 is new. Also claimed are: (1) isolated extracellular domain sequence of Apo-2 comprising amino acids: (a) 54-182, or (b) 1-182 of (I); (2) isolated death domain sequence of Apo-2 comprising amino acids 324-391 of (I); (3) isolated DNA polynucleotide

encoding Apo-2, (1a) or (2); (4) vector containing DNA as in (3), optionally operably linked to host-recognised control sequences; (5) host cells (e.g. CHO, E. coli or yeast cells) comprising vector; (6) non-human transgenic animals containing (5) or cells with altered gene for Apo-2 expression; (7) antibodies specifically binding Apo-2; (8) hybridoma cell lines producing antibody; (9) chimeric molecule comprising Apo-2, (1a) or antibody fused to heterologous amino acid sequence; (10) dimeric molecule comprising antibody and heterologous antibody, and (11) DNA encoding specific single-chain antibodies 16E2, 20E6 or 24C4, vectors comprising DNA and host cells comprising vector.

USE - Apo-2 can be used therapeutically to induce apoptosis in mammalian cells, useful to treat conditions associated with decreased apoptosis e.g. cancer. Apo-2 is believed to be a new tumour necrosis factor (TNF) receptor (TNFR); TNF cytokines can induce apoptosis, thought to be initiated by binding to TNFRs, and Apo-2 triggered caspase-dependent apoptosis. It can be used to identify agents activating Apo-2, useful to treat mammalian cancer cells (claimed), and to produce Apo-2 chimeras useful therapeutically (e.g. those containing immunoglobulin sequences can be inhibit apoptosis) or diagnostically (e.g. those comprising an epitope tag polypeptide allow Apo-2 detection and purification using anti-tag antibodies). It can be used to produce antibodies which can be combined with a (particularly pharmaceutically acceptable) carrier in compositions (claimed) or used to produce dimeric molecules (especially homodimeric molecules comprising first and second Apo-2 antibodies; claimed). Agonistic (especially single-chain; claimed) antibodies can be administered to induce apoptosis in mammalian cancer cells (claimed), and antagonistic antibodies used to block excessive apoptosis (e.g. in neurodegenerative diseases). Apo-2 antibodies may also be used diagnostically e.g. to detect Apo-2 expression in cells/tissues and in Apo-2 purification. Polynucleotides encoding Apo-2 may be used diagnostically and to produce transgenic animals (e.g. mice or rats) as in (6) (e.g. knockout animals) (claimed), useful to develop and screen therapeutics. Kits comprising Apo-2 or Apo-2 antibodies are provided (claimed).

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KIMC](#) | [Drawn Desc](#) | [Image](#)

158. Document ID: CN 1184315 C, WO 9841629 A2, AU 9867635 A, EP 970213 A2, MX 9908486 A1, CN 1275162 A, KR 2000076364 A, NZ 337795 A, JP 2001520513 W, US 20020072091 A1, AU 747635 B, US 20020098550 A1, NZ 508381 A, AU 2002300603 A1, US 20040141952 A1, CN 1624128 A

L7: Entry 158 of 160

File: DWPI

Jan 12, 2005

DERWENT-ACC-NO: 1998-531568

DERWENT-WEEK: 200620

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TITLE: New isolated death domain containing receptor 5 - used to develop products for treating e.g. cancers, auto:immune disorders, viral infections, inflammation, graft-versus-host disease or neuro:degenerative disorders

INVENTOR: NI, J; ROSEN, C A ; GENTZ, R L ; GUO-LIANG, Y ; JIAN, N ; YU, G ; SU, J Y

PRIORITY-DATA: 1997US-054021P (July 29, 1997), 1997US-040846P (March 17, 1997), 1998US-0042583 (March 17, 1998), 1999US-132498P (May 4, 1999), 1999US-133238P (May 7, 1999), 1999US-148939P (August 13, 1999), 2000US-0565009 (May 4, 2000), 2001US-0874138 (June 6, 2001), 2001US-0005842 (December 7, 2001), 2002AU-0300603 (August 9, 2002), 2004US-0774622 (February 10, 2004)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>CN 1184315 C</u>	January 12, 2005		000	C12N015/12
<u>WO 9841629 A2</u>	September 24, 1998	E	089	C12N015/12
<u>AU 9867635 A</u>	October 12, 1998		000	
<u>EP 970213 A2</u>	January 12, 2000	E	000	C12N015/12
<u>MX 9908486 A1</u>	January 1, 2000		000	C12N015/12
<u>CN 1275162 A</u>	November 29, 2000		000	C12N015/12
<u>KR 2000076364 A</u>	December 26, 2000		000	C12N015/12

<u>NZ 337795 A</u>	June 29, 2001	000	C07K016/28
<u>JP 2001520513 W</u>	October 30, 2001	104	C12N015/09
<u>US 20020072091 A1</u>	June 13, 2002	000	C12P021/02
<u>AU 747635 B</u>	May 16, 2002	000	C12N015/12
<u>US 20020098550 A1</u>	July 25, 2002	000	C07K014/705
<u>NZ 508381 A</u>	September 27, 2002	000	C07K016/28
<u>AU 2002300603 A1</u>	February 13, 2003	000	C12N015/12
<u>US 20040141952 A1</u>	July 22, 2004	000	A61K038/19
<u>CN 1624128 A</u>	June 8, 2005	000	C12N015/28

, CN 1624128 A INT-CL (IPC): A61 K 31/00; A61 K 31/397; A61 K 31/407; A61 K 31/496;  
A61 K 31/545; A61 K 31/704; A61 K 38/00; A61 K 38/17; A61 K 38/19; A61 K 39/395; A61 P 9/10;  
A61 P 25/28; A61 P 35/00; A61 P 37/06; C07 H 21/04; C07 K 14/495; C07 K 14/525; C07 K 14/575;  
C07 K 14/705; C07 K 14/715; C07 K 16/18; C07 K 16/28; C12 N 1/21; C12 N 5/06; C12 N 5/10;  
C12 N 15/09; C12 N 15/12; C12 N 15/28; C12 N 15/62; C12 N 15/63; C12 P 21/02

ABSTRACTED-PUB-NO: US20020072091A

BASIC-ABSTRACT:

An isolated polynucleotide (I) comprises a nucleotide sequence (NS) at least 95% identical to a sequence selected from: (a) a NS encoding a polypeptide comprising amino acids from -51 to 360 of a sequence shown; (b) a NS encoding a polypeptide comprising amino acids from -50 to 360 of a sequence shown; (c) a NS encoding a polypeptide comprising amino acids from 1 to 360 of a sequence shown; (d) a NS encoding a polypeptide having an amino acid sequence encoded by a cDNA clone contained in ATCC 97920; (e) a NS encoding a mature DR5 polypeptide having an amino acid sequence encoded by a cDNA clone contained in ATCC 97920; (f) a NS encoding a DR5 extracellular domain; (g) a NS encoding a DR5 transmembrane domain; (h) a NS encoding a DR5 intracellular domain; (i) a NS encoding a DR5 death domain; and (j) a NS complementary to any of the NSS in (a)-(i).

Also claimed are:

- (1) an isolated polynucleotide (PN) comprising a sequence (PNS) which hybridises under stringent hybridisation conditions to (I), where the PN which hybridises does not hybridise under stringent hybridisation conditions to a PN having a NS consisting of only adenosine nucleotides or of only thymidine nucleotides;
- (2) an isolated NAM comprising a PN which encodes an amino acid sequence of an epitope-bearing portion of a DR5 polypeptide having an amino acid sequence as in (a)-(i) above; (3) a recombinant vector comprising (I) or a polynucleotide as in (2);
- (4) a recombinant host cell containing (I) or a polynucleotide as in (2);
- (5) an isolated DR5 polypeptide comprising an amino acid sequence at least 95% identical to an amino acid sequence selected from (a)-(i) as above or as in (2);
- (6) an isolated antibody that binds specifically to a DR5 polypeptide as in (5);
- (7) an isolated PN having a sequence at least 95% identical to a sequence selected from: (a) a NS of clone HAPBU13R; (b) a NS of clone HSBBU76R; (c) a NS of a portion of a sequence shown, where the portion comprises at least 50 contiguous nucleotides from nucleotide 284 to 1,362; and (d) a NS complementary to any of the NSS in (a)-(c);
- (8) a fusion protein comprising the peptide as in (5) fused to a heterologous polypeptide.

USE - The DR5 (death domain containing receptor 5) is a novel member of the tumour necrosis factor (TNF) family of receptors. Agonists which increase DR5 mediated signalling can be used to treat diseases in which decreased apoptosis is exhibited, e.g. cancers, autoimmune disorders (such as systemic lupus erythematosus and immune-related glomerulonephritis rheumatoid arthritis) and viral infections (such as herpes viruses, pox viruses and adenoviruses), inflammation, graft versus host disease, acute graft rejection, chronic graft rejection, rheumatoid arthritis, osteoarthritis, psoriasis, septicemia, and inflammatory bowel disease. Antagonists which decrease DR5 mediated signalling can be used to treat diseases in which

apoptosis is exhibited, e.g. AIDS, neurodegenerative disorders (such as Alzheimer's disease, Parkinson's disease, Amyotrophic lateral sclerosis, Retinitis pigmentosa, Cerebellar degeneration), myelodysplastic syndromes (such as aplastic anaemia), ischemic injury (such as that caused by myocardial infarction, stroke and reperfusion injury), toxin-induced liver disease (such as that caused by alcohol), septic shock, cachexia and anorexia. The products can also be used for detection, diagnosis and drug screening.

ABSTRACTED-PUB-NO:

US20020098550A EQUIVALENT-ABSTRACTS:

NOVELTY - A method for treating graft-versus-host disease, viral infection, cancer, leukemia, immunodeficiency, or an autoimmune disorder comprising administering an antibody (I) to amino acids -51 to 360 of Death domain containing receptor (DR5) and a second agent, is new.

DETAILED DESCRIPTION - A method for treating graft-versus-host disease, viral infection, cancer, leukemia, immunodeficiency, or an autoimmune disorder comprising administering an antibody (I) to amino acids -51 to 360 of Death domain containing receptor (DR5) and a second agent, is new. DR5 is a member of the tumor necrosis factor (TNF) family of receptors and comprises a defined 411 amino acid sequence (P1), given in the specification.

The second therapeutic agent is selected from TRAIL, a TNF, a TNF blocking agent, an immunosuppressive agent, an antibiotic, an antiinflammatory agent, a chemotherapeutic agent, and a cytokine.

INDEPENDENT CLAIMS are also included for the following:

- (1) a composition comprising (I) and the second therapeutic agent; and
- (2) an isolated polypeptide comprising residues 1-133 of P1 covalently attached to polyethylene glycol (PEG), where PEG has an average molecular weight of 2000-20000.

ACTIVITY - Immunosuppressive; antiviral; cytostatic; osteopathic; antiarthritic; antipsoriatic; antibacterial; antiinflammatory; gastrointestinal general; vasotropic.

Experimental details are described but no results are given.

MECHANISM OF ACTION - Gene therapy.

Experimental details are described but no results are given.

USE - The method is useful for the treatment of graft-versus-host disease, viral infection, cancer, leukemia, immunodeficiency, or an autoimmune disorder.

(I) is useful for treating or preventing diseases and conditions associated with increased cell survival and/or insensitivity to apoptosis-inducing agents such as solid tissue cancers and leukemias. Antagonists of DR5 are useful for inhibiting T-cell mediated immune responses as well as preventing and/or treating diseases and conditions associated with T-cell mediated immune responses such as graft-versus-host responses, osteoarthritis, psoriasis, septicemia, inflammatory bowel disease, autoimmune diseases and leukemia. DR5 polynucleotides and polypeptides are useful for diagnosis, prevention and/or treatment of parasitic, bacterial, and viral infections, restenosis and autoimmune disorders.

An isolated polynucleotide (I) comprises a nucleotide sequence (NS) at least 95% identical to a sequence selected from: (a) a NS encoding a polypeptide comprising amino acids from -51 to 360 of a sequence shown; (b) a NS encoding a polypeptide comprising amino acids from -50 to 360 of a sequence shown; (c) a NS encoding a polypeptide comprising amino acids from 1 to 360 of a sequence shown; (d) a NS encoding a polypeptide having an amino acid sequence encoded by a cDNA clone contained in ATCC 97920; (e) a NS encoding a mature DR5 polypeptide having an amino acid sequence encoded by a cDNA clone contained in ATCC 97920; (f) a NS encoding a DR5 extracellular domain; (g) a NS encoding a DR5 transmembrane domain; (h) a NS encoding a DR5 intracellular domain; (i) a NS encoding a DR5 death domain; and (j) a NS complementary to any of the NSs in (a)-(i).

Also claimed are:

- (1) an isolated polynucleotide (PN) comprising a sequence (PNS) which hybridises under

stringent hybridisation conditions to (I), where the PN which hybridises does not hybridise under stringent hybridisation conditions to a PN having a NS consisting of only adenosine nucleotides or of only thymidine nucleotides;

(2) an isolated NAM comprising a PN which encodes an amino acid sequence of an epitope-bearing portion of a DR5 polypeptide having an amino acid sequence as in (a)-(i) above; (3) a recombinant vector comprising (I) or a polynucleotide as in (2);

(4) a recombinant host cell containing (I) or a polynucleotide as in (2);

(5) an isolated DR5 polypeptide comprising an amino acid sequence at least 95% identical to an amino acid sequence selected from (a)-(i) as above or as in (2);

(6) an isolated antibody that binds specifically to a DR5 polypeptide as in (5);

(7) an isolated PN having a sequence at least 95% identical to a sequence selected from: (a) a NS of clone HAPBU13R; (b) a NS of clone HSBBU76R; (c) a NS of a portion of a sequence shown, where the portion comprises at least 50 contiguous nucleotides from nucleotide 284 to 1,362; and (d) a NS complementary to any of the NSs in (a)-(c);

(8) a fusion protein comprising the peptide as in (5) fused to a heterologous polypeptide.

USE - The DR5 (death domain containing receptor 5) is a novel member of the tumour necrosis factor (TNF) family of receptors. Agonists which increase DR5 mediated signalling can be used to treat diseases in which decreased apoptosis is exhibited, e.g. cancers, autoimmune disorders (such as systemic lupus erythematosus and immune-related glomerulonephritis rheumatoid arthritis) and viral infections (such as herpes viruses, pox viruses and adenoviruses), inflammation, graft versus host disease, acute graft rejection, chronic graft rejection, rheumatoid arthritis, osteoarthritis, psoriasis, septicemia, and inflammatory bowel disease. Antagonists which decrease DR5 mediated signalling can be used to treat diseases in which apoptosis is exhibited, e.g. AIDS, neurodegenerative disorders (such as Alzheimer's disease, Parkinson's disease, Amyotrophic lateral sclerosis, Retinitis pigmentosa, Cerebellar degeneration), myelodysplastic syndromes (such as aplastic anaemia), ischemic injury (such as that caused by myocardial infarction, stroke and reperfusion injury), toxin-induced liver disease (such as that caused by alcohol), septic shock, cachexia and anorexia. The products can also be used for detection, diagnosis and drug screening.

WO 9841629A

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMID	Draw. Desc	Clip Img	Img
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159. Document ID: DE 69832178 E, WO 9835986 A1, AU 9866505 A, EP 1005488 A1, US 6072047 A, NZ 336929 A, MX 9907234 A1, AU 735686 B, JP 2002514069 W, US 6569642 B1, US 6642358 B1, MX 217643 B, EP 1005488 B1

L7: Entry 159 of 160

File: DWPI

Dec 8, 2005

DERWENT-ACC-NO: 1998-480767

DERWENT-WEEK: 200581

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TITLE: New TRAIL receptor protein and related oligomers, nucleic acid, vectors - used to inhibit TRAIL activity, e.g. in cases of thrombocytic purpura, clotting in small blood vessels etc., also for diagnosis

INVENTOR: RAUCH, C; WALCZAK, H

PRIORITY-DATA: 1997US-0883036 (June 26, 1997), 1997US-0799861 (February 13, 1997), 1997US-0815255 (March 12, 1997), 1997US-0829536 (March 28, 1997), 1997US-0869852 (June 4, 1997), 2000US-0536201 (March 27, 2000), 2000US-0578392 (May 25, 2000)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>DE 69832178 E</u>	December 8, 2005		000	C07K014/435
<u>WO 9835986 A1</u>	August 20, 1998	E	056	C07K014/435
<u>AU 9866505 A</u>	September 8, 1998		000	C07K014/435
<u>EP 1005488 A1</u>	June 7, 2000	E	000	C07K014/435
<u>US 6072047 A</u>	June 6, 2000		000	C07H021/04
<u>NZ 336929 A</u>	November 24, 2000		000	C07K016/28
<u>MX 9907234 A1</u>	January 1, 2000		000	C07K014/435
<u>AU 735686 B</u>	July 12, 2001		000	C07K014/435
<u>JP 2002514069 W</u>	May 14, 2002		070	C12N015/09
<u>US 6569642 B1</u>	May 27, 2003		000	C07H021/04
<u>US 6642358 B1</u>	November 4, 2003		000	C07K014/00
<u>MX 217643 B</u>	November 18, 2003		000	C07H021/04
<u>EP 1005488 B1</u>	November 2, 2005	E	000	C07K014/435

INT-CL (IPC): A61 K 38/00; A61 P 43/00; C07 H 21/04; C07 K 14/00; C07 K 14/435; C07 K 14/705; C07 K 14/715; C07 K 16/28; C12 N 1/15; C12 N 1/19; C12 N 1/21; C12 N 5/10; C12 N 15/00; C12 N 15/09; C12 N 15/12; C12 N 15/19; C12 N 15/63; C12 P 21/08

ABSTRACTED-PUB-NO: US 6072047A

BASIC-ABSTRACT:

Purified TRAIL-receptor polypeptide (TRAIL-R; TRAIL = tumour necrosis factor-related apoptosis-inducing ligand) that can bind TRAIL and includes the sequence VPANEGD.

Also new are:

- (1) oligomers containing 2-4 TRAIL-R molecules;
- (2) isolated TRAIL-R DNA (I), its fragments and DNA or RNA complements;
- (3) expression vectors containing (I);
- (4) host cells containing this vector, and
- (5) antibodies (Ab) against TRAIL-R, and its antigen-binding fragments.

USE - TRAIL-R is used:

- (i) to purify or inhibit activity of TRAIL, in vitro or in vivo, particularly its apoptosis-inducing action;
- (ii) to measure amounts of TRAIL;
- (iii) to identify TRAIL-expressing cells;
- (iv) as carrier for therapeutic or diagnostic agents to such cells;
- (v) as reagents for study effects of inhibiting TRAIL/TRAIL-R interactions.

TRAIL-R, or its nucleic acid, can be used to treat conditions involving defective or inadequate TRAIL-R, e.g. thrombotic thrombocytopaenic purpura, haemolytic-uraemic syndrome, clotting of small blood vessels, systemic lupus erythematosus and TRAIL-mediated apoptosis of T cells in human immune deficiency virus infections.

Ab are used for detection or purification of TRAIL-R, and to inhibit TRAIL/TRAIL-R interaction, i.e. to treat the above diseases; also agonist antibodies can be used to induce apoptosis in some cancer or virus-infected cells.

(I) can be used to detect abnormal TRAIL-R genes and as antisense therapeutics.

TRAIL-R may be administered in soluble form or it is immobilised on a solid support and used

for extracorporeal treatment of blood.

ABSTRACTED-PUB-NO:

WO 9835986A EQUIVALENT-ABSTRACTS:

Purified TRAIL-receptor polypeptide (TRAIL-R; TRAIL = tumour necrosis factor-related apoptosis-inducing ligand) that can bind TRAIL and includes the sequence VPANEGD.

Also new are:

- (1) oligomers containing 2-4 TRAIL-R molecules;
- (2) isolated TRAIL-R DNA (I), its fragments and DNA or RNA complements;
- (3) expression vectors containing (I);
- (4) host cells containing this vector, and
- (5) antibodies (Ab) against TRAIL-R, and its antigen-binding fragments.

USE - TRAIL-R is used:

- (i) to purify or inhibit activity of TRAIL, in vitro or in vivo, particularly its apoptosis-inducing action;
- (ii) to measure amounts of TRAIL;
- (iii) to identify TRAIL-expressing cells;
- (iv) as carrier for therapeutic or diagnostic agents to such cells;
- (v) as reagents for study effects of inhibiting TRAIL/TRAIL-R interactions.

TRAIL-R, or its nucleic acid, can be used to treat conditions involving defective or inadequate TRAIL-R, e.g. thrombotic thrombocytopaenic purpura, haemolytic-uraemic syndrome, clotting of small blood vessels, systemic lupus erythematosus and TRAIL-mediated apoptosis of T cells in human immune deficiency virus infections.

Ab are used for detection or purification of TRAIL-R, and to inhibit TRAIL/TRAIL-R interaction, i.e. to treat the above diseases; also agonist antibodies can be used to induce apoptosis in some cancer or virus-infected cells.

(I) can be used to detect abnormal TRAIL-R genes and as antisense therapeutics.

TRAIL-R may be administered in soluble form or it is immobilised on a solid support and used for extracorporeal treatment of blood.

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160. Document ID: US 6998116 B1, WO 9725428 A1, AU 9718248 A, EP 873407 A1, US 6030945 A, AU 729279 B, JP 2001510321 W, US 20020102233 A1, US 6746668 B2, US 20040253708 A1, JP 2005237370 A

L7: Entry 160 of 160

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Feb 14, 2006

DERWENT-ACC-NO: 1997-372867

DERWENT-WEEK: 200613

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TITLE: Novel cytokine, Apo-2 ligand and corresponding DNA - used to induce apoptosis for the treatment of breast and colon cancer

INVENTOR: ASHKENAZI, A J; CHUNTHARAPAI, A ; KIM, K J

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>US 6998116 B1</u>	February 14, 2006		000	A61K038/19
<u>WO 9725428 A1</u>	July 17, 1997	E	072	C12N015/28
<u>AU 9718248 A</u>	August 1, 1997		000	C12N015/28
<u>EP 873407 A1</u>	October 28, 1998	E	000	C12N015/28
<u>US 6030945 A</u>	February 29, 2000		000	A61K038/18
<u>AU 729279 B</u>	February 1, 2001		000	C12N015/28
<u>JP 2001510321 W</u>	July 31, 2001		108	C12N015/02
<u>US 20020102233 A1</u>	August 1, 2002		000	C07K014/52
<u>US 6746668 B2</u>	June 8, 2004		000	A61K038/18
<u>US 20040253708 A1</u>	December 16, 2004		000	C12N009/64
<u>JP 2005237370 A</u>	September 8, 2005		053	C12N005/10

INT-CL (IPC): A01 K 67/027; A61 K 31/337; A61 K 31/4745; A61 K 38/00; A61 K 38/18; A61 K 38/19;  
A61 K 39/395; A61 K 47/48; A61 P 13/08; A61 P 13/10; A61 P 35/00; A61 P 35/02; A61 P 43/00;  
C07 H 21/04; C07 K 14/435; C07 K 14/46; C07 K 14/52; C07 K 14/525; C07 K 16/24; C12 N 5/10;  
C12 N 5/18; C12 N 9/64; C12 N 15/02; C12 N 15/09; C12 N 15/28; C12 N 15/62; C12 N 15/86;  
C12 P 21/08

ABSTRACTED-PUB-NO: US 6030945A

BASIC-ABSTRACT:

An isolated biologically active Apo-2 ligand comprising amino acids 114-281, 41-281, 15-281 or 1-281, of the 281 residue sequence given in the specification, is new. Also claimed are: (1) a chimeric polypeptide comprising the Apo-2 ligand fused to a heterologous polypeptide; (2) isolated nucleic acid (I) encoding Apo-2; (3) a vector comprising (I); (4) a host cell comprising the vector of (3); (5) production of Apo-2 ligand comprising culturing the host cell of (4) and recovering the ligand from the culture; (6) an antibody, preferably monoclonal, which binds to Apo-2 ligand; (7) a hybridoma cell line which produces the antibody of (6); (8) a non-human transgenic animal, which contains cells that express (I); and (9) a non-human, knockout animal, preferably a rat or mouse, which contains cells having an altered gene encoding Apo-2 ligand.

USE - The Apo-2 ligand is a novel cytokine which is useful for stimulating apoptosis in mammalian cells. The ligand is used for the treatment of a mammal having cancer, especially breast or colon cancer (claimed). Containers containing a composition containing the Apo-2 ligand are included in the scope of the invention. The Apo-2 ligand antibodies may be used in diagnostic assays for Apo-2 ligand, and for affinity purification of Apo-2 ligand.

ABSTRACTED-PUB-NO:

US20020102233A EQUIVALENT-ABSTRACTS:

An isolated biologically active Apo-2 ligand comprising amino acids 114-281, 41-281, 15-281 or 1-281, of the 281 residue sequence given in the specification, is new. Also claimed are: (1) a chimeric polypeptide comprising the Apo-2 ligand fused to a heterologous polypeptide; (2) isolated nucleic acid (I) encoding Apo-2; (3) a vector comprising (I); (4) a host cell comprising the vector of (3); (5) production of Apo-2 ligand comprising culturing the host cell of (4) and recovering the ligand from the culture; (6) an antibody, preferably monoclonal, which binds to Apo-2 ligand; (7) a hybridoma cell line which produces the antibody of (6); (8) a non-human transgenic animal, which contains cells that express (I); and (9) a non-human, knockout animal, preferably a rat or mouse, which contains cells having an altered gene encoding Apo-2 ligand.

USE - The Apo-2 ligand is a novel cytokine which is useful for stimulating apoptosis in mammalian cells. The ligand is used for the treatment of a mammal having cancer, especially breast or colon cancer (claimed). Containers containing a composition containing the Apo-2 ligand are included in the scope of the invention. The Apo-2 ligand antibodies may be used in diagnostic assays for Apo-2 ligand, and for affinity purification of Apo-2 ligand.

An isolated biologically active Apo-2 ligand comprising amino acids 114-281, 41-281, 15-281 or 1-281, of the 281 residue sequence given in the specification, is new. Also claimed are: (1) a chimeric polypeptide comprising the Apo-2 ligand fused to a heterologous polypeptide; (2) isolated nucleic acid (I) encoding Apo-2; (3) a vector comprising (I); (4) a host cell comprising the vector of (3); (5) production of Apo-2 ligand comprising culturing the host cell of (4) and recovering the ligand from the culture; (6) an antibody, preferably monoclonal, which binds to Apo-2 ligand; (7) a hybridoma cell line which produces the antibody of (6); (8) a non-human transgenic animal, which contains cells that express (I); and (9) a non-human, knockout animal, preferably a rat or mouse, which contains cells having an altered gene encoding Apo-2 ligand.

USE - The Apo-2 ligand is a novel cytokine which is useful for stimulating apoptosis in mammalian cells. The ligand is used for the treatment of a mammal having cancer, especially breast or colon cancer (claimed). Containers containing a composition containing the Apo-2 ligand are included in the scope of the invention. The Apo-2 ligand antibodies may be used in diagnostic assays for Apo-2 ligand, and for affinity purification of Apo-2 ligand.

WO 9725428A

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Term	Documents
(3 OR 5).PGPB,USPT,JPAB,DWPI.	160
(L3 OR L5 ).PGPB,USPT,JPAB,DWPI.	160

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